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EASY PRODUCT SEARCH

Returning customer? Quickly find a product by part number by using our index on pages 127 - 131.

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Sullins Edgecards

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Micro Plastics Edgcards

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.156" [3.96 mm] Contact Centers

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GENERAL SPECIFICATIONS

RoHS COMPLIANT



All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 5 of this catalog.

RoHS
COMPLIANT

MATERIALS

Insulator

- PBT, Valox*, Thermoplastic Polyester
- PPS, Ryton*, Polyphenylene Sulfide
- PEEK, Polyetheretherketone
- PA9T, High Temperature Polyamide
- Other materials available. Consult Factory

Contacts

Phosphor Bronze (Standard), Beryllium Copper, Beryllium Nickel, Spinodal**, Brass

Plating

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

UL/CUL File Number: E64287

Cage Code: 54453

MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

Special Insertion/Withdrawal forces available upon request

ELECTRICAL

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers:	.039"[1mm]	.050"[1.27mm]	.100"[2.54mm]	.125"[3.18mm]	.150"[3.81mm]	.156"[3.96mm]
Voltage:	125 VDC	250 VDC	600 VDC	800 VDC	1500 VDC	1800 VDC
	225 VAC	300 VAC	750 VAC	750 VAC	900 VAC	950 VAC

Current Rating: 1 to 5 amp per contact

Voltage Drop: 30 milli volt at rated current

Contact Resistance: 30 milli ohm maximum at rated current

ENVIRONMENTAL

Solvent resistance: Perchloroethylene, Freon 113, Freon 11, Trichloroethylene

Operating Temperature:	PBT	-65° to +130°C	Phosphor Bronze	-65° to +125°C
	PPS	-65° to +200/220°C***	Beryllium Copper	-65° to +150°C
	PEEK	-65° to +250°C***	Spinodal**	-65° to +200°C
	PA9T	-65° to +150°C	Beryllium Nickel***	-65° to +300°C
(Continuous temperatures, higher for short duration. Contact Factory for details.)				

* Or equivalent.

** Consult factory for special soldering guidelines.

*** Consult factory.



PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)		MODIFICATION CODE (Consult Factory)	
E = PBT & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)		OMIT FOR STANDARD	
R = PPS & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.			
G = PA9T & PHOSPHOR BRONZE OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260° FOR 120 sec. MAX.			
H = PBT & Beryllium Copper OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)			
A = PPS & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.			
J = PA9T & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.			
M = White PA9T/Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C			
F = PPS & Spinodal (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C			
C = PPS & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.			
W = PEEK & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +250°C			
N = Nylon 6T & Phosphor Bronze OPERATING TEMPERATURE: -10°C to +85°C PROCESSING TEMPERATURE: 260°C for 10 sec. MAX.			
CONTACT FINISH - RoHS Compliant All platings are Lead Free and have .000050" Nickel underplate		TERMINATION TYPE	
Contact Surface		Card Extender	
B = .000010" Gold	Termination	HR = .050" & 1mm Contact Centers	
C = .000030" Gold	.000100" Pure Tin, Matte	KR,KN = .025" [.64mm] Square Post, Cantilever	
G = .000010" Gold	.000005" Gold	Dip Solder - High Profile	
Y = .000030" Gold	.000005" Gold	RS = .025 [.64mm] Square Tail, Loop Bellows	
Contact Surface		CS, SC = .025" [.64mm] Square Tail, Hairpin Bellows	
S = .000010" Gold	Overall Plating	TK = .026" [.66mm] Round Tail, Loop Bellows	
M = .000030" Gold	.000010" Gold	CT, CW = .015" x .025" Tail, Hairpin Bellows	
E = .000100" Pure Tin, Matte	.000010" Gold	CK = .026" [.66mm] Round Tail, Loop Bellows	
		HH = 1mm [.039"] Contact Centers	
		HH, HL, HN = .050" Contact Centers	
		KS, KD = .025" [.64mm] Square Post, Cantilever	
		Dip Solder - Low Profile	
		SX, SU = Crimp to Center for Single Readout	
		RT, RK, RY = .140" [3.56mm] Row Spacing	
		RX, RF, RU, RP = .200" [5.08mm] Row Spacing	
		RJ = .250" [6.35mm] Row Spacing	
		Eyelet	
		RE, TE, SE = Eyelet Tail	
		Press Fit	
		.200" [5.08mm] Row Spacing .100" [2.54mm] Row Spacing	
		JB = .025" [.64mm] Sq. Post	JF = .025" [.64mm] Sq. Post
		JC = .025" [.64mm] Sq. Post	JG = .025" [.64mm] Sq. Post
		JW = .025" [.64mm] Sq. Post	JY = .025" [.64mm] Sq. Post
		JX = .025" [.64mm] Sq. Post	JZ = .025" [.64mm] Sq. Post
		Right Angle	
		RA, SA = Right Angle, Full Bellows	
		TA, TB, TM = Right Angle, Loop Bellows	
		CA, CB, CC = Right Angle, Hairpin Bellows	
		HA = Right Angle, .050" & 1mm Contact Centers	
		HB = Right Angle, .050" Contact Centers	
		KA, KE, KU, KJ = .025" [.64mm] Square Post, Cantilever	
		Surface Mount	
		HF = Surface Mount, .050" & 1mm Contact Centers	
		Wire Wrap	
		RM = .025" [.64mm] Square Post, Loop Bellows	
		CM, MC = .025" [.64mm] Square Post, Hairpin Bellows	
		KK = .031" [.79mm] x .062" [1.58mm] Post	
		KL = .031" [.79mm] x .062" [1.58mm] Post Twisted 90°	
		KM = .025" [.64mm] Square Post, Cantilever	
		WW = .045" [1.14mm] Square Post	
		Bi-Level Terminations	
		LR = Card Extender	
		LT = Dip Solder	
		KB = Right Angle	
		Male Edgecards	
		MW, MS = Dip Solder	
		MA, MV, MB = Right Angle	
		MD, MJ, MK = Right Angle	
		MR, MN = Card Extender	
		MM = Wire Wrap	
CONTACT CENTERS			
E = 1.00mm [.039"]			
B = .050" [1.27 mm]			
K = .078" [1.98 mm]			
C = .100" [2.54 mm]			
A = .125" [3.18 mm]			
J = .150" [3.84 mm]			
M = .156" [3.96 mm]			
NUMBER OF CONTACT POSITIONS See applicable specification page			
READOUT			
D = Dual			
D = Dual Row/ Crimp to Center for Single Readout			
H = Half Loaded			
M = Male Edgecard			
Registered Trademarks			
Sabic Innovative Plastics: Valox	Sullins Electronics: Zero Lead Time		
Phillips 66: Ryton	Sullins Electronics: Sullins		
Gardner-Denver Co.: Wire Wrap	Underwriters Labs: UL		
RTP Compounder: PEEK	Ametek: Spinodal		
Specifications are subject to change without notice.			

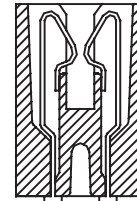


1.00 mm [.039"] Contact Centers, 15.49 mm Insulator Height Dip Solder/Card Extender/SMT

SPECIFICATIONS

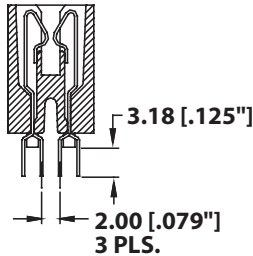
- Accommodates 1.57 mm $\pm$.20 [.062" $\pm$.008"] PC board
- PPS or PA9T insulator
- Molded-in key available
- 1 amp current rating per contact
- Highly reliable high cycle hairpin bellow contacts
- 150 grams normal force minimum

READOUT

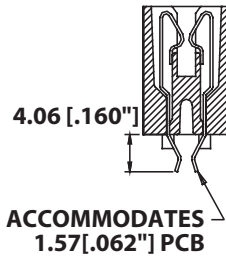


DUAL (D)

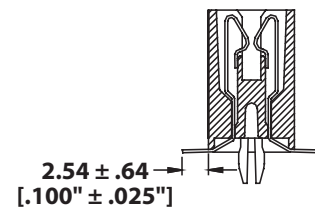
TERMINATION TYPE



STAGGERED DIP SOLDER
(HH)

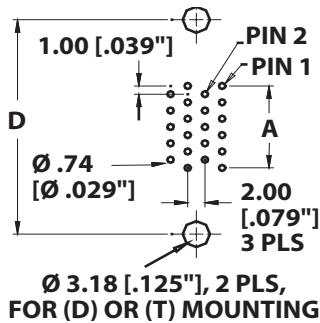


CARD EXTENDER
(HR)

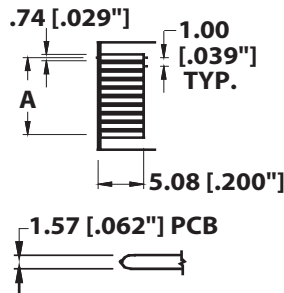


SURFACE MOUNT
(HF)

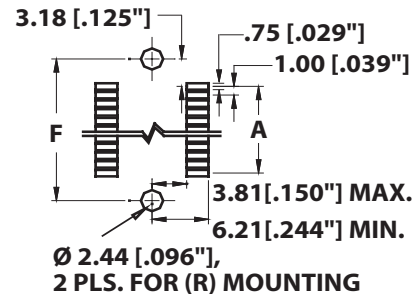
PCB LAYOUT



CONNECTOR SIDE (HH)

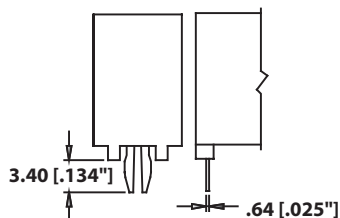


SOLDER END (HR)



CONNECTOR SIDE (HF)

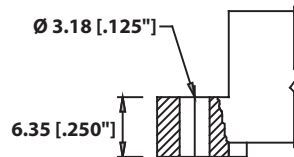
MOUNTING STYLE



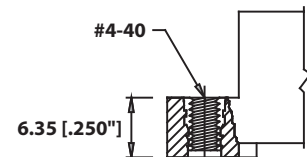
BOARD LOCK (R)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



THREADED INSERT (T)

1.00 mm [.039"] Contact Centers, 15.49mm Insulator Height Dip Solder/Card Extender/SMT



PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

B = .000010" Gold
C = .000030" Gold

Termination

.000100" Pure Tin, Matte
.000100" Pure Tin, Matte

CONTACT CENTERS

E = 1.00mm [.039"]

G B E 50 D HH D - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

D = Flush Mounting
N = No Mounting
R = Metal Board Lock
T = Flush Mounting, #4-40 Threaded Insert

TERMINATION TYPE (Opposite Page)

HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount

READOUT (Opposite Page)

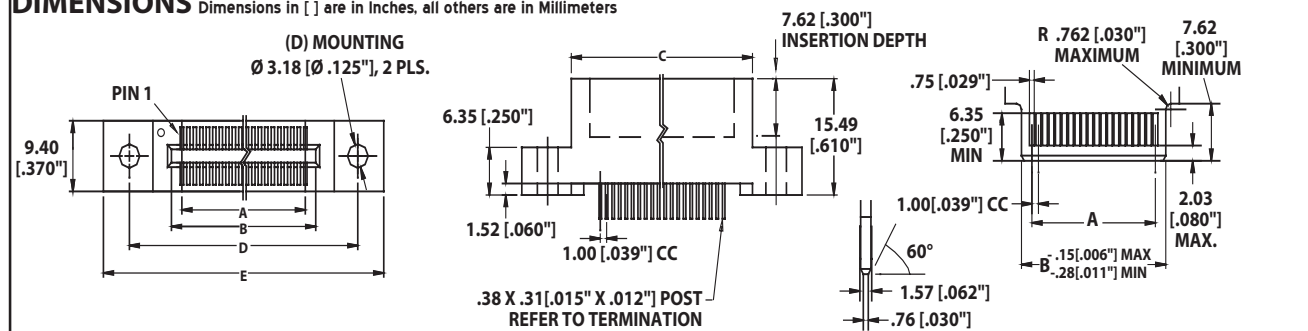
D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in Inches, all others are in Millimeters

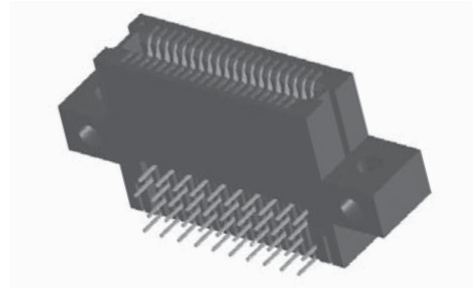
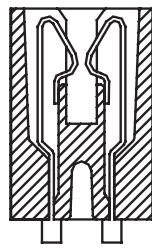
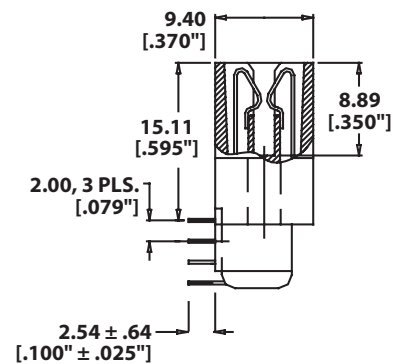
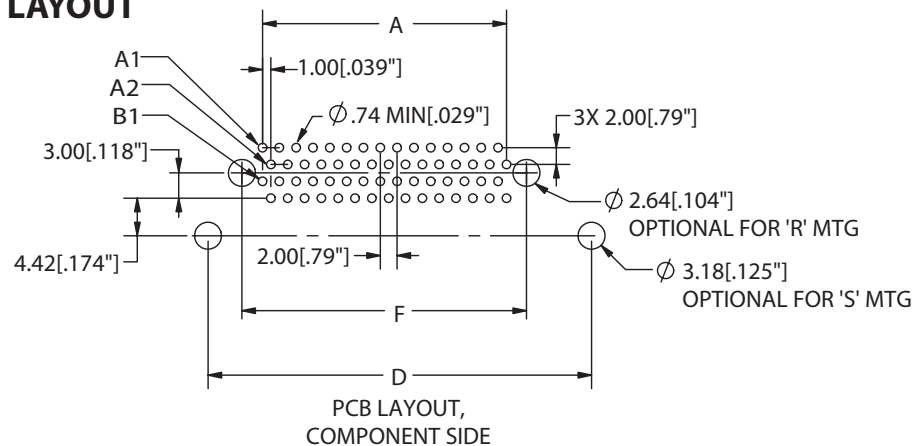
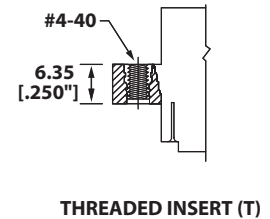
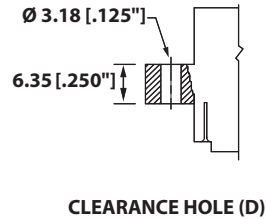
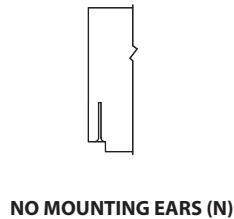
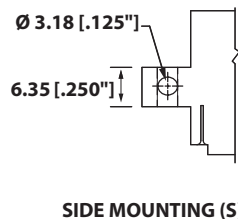
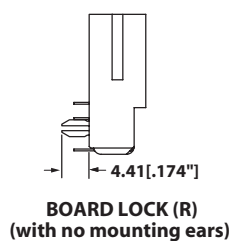


POSITIONS/ CONTACTS	MILLIMETERS						[INCHES]					
	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010
02/04*	1.00	4.32	9.89	17.15	25.13	7.35	0.039	0.170	0.389	0.675	0.989	0.289
03/06*	2.00	5.32	10.89	18.15	26.13	8.35	0.079	0.210	0.429	0.715	1.029	0.329
04/08*	3.00	6.32	11.89	19.15	27.13	9.35	0.118	0.249	0.468	0.754	1.068	0.368
05/10	4.00	7.32	12.89	20.15	28.13	10.35	0.157	0.288	0.507	0.793	1.107	0.407
06/12	5.00	8.32	13.89	21.15	29.13	11.35	0.197	0.328	0.547	0.833	1.147	0.447
07/14	6.00	9.32	14.89	22.15	30.13	12.35	0.236	0.367	0.586	0.872	1.186	0.486
08/16	7.00	10.32	15.89	23.15	31.13	13.35	0.276	0.407	0.626	0.912	1.226	0.526
09/18	8.00	11.32	16.89	24.15	32.13	14.35	0.315	0.446	0.665	0.951	1.265	0.565
10/20	9.00	12.32	17.89	25.15	33.13	15.35	0.354	0.485	0.704	0.990	1.304	0.604
11/22	10.00	13.32	18.89	26.15	34.13	16.35	0.394	0.525	0.744	1.030	1.344	0.644
12/24	11.00	14.32	19.89	27.15	35.13	17.35	0.433	0.564	0.783	1.069	1.383	0.683
13/26	12.00	15.32	20.89	28.15	36.13	18.35	0.472	0.603	0.822	1.108	1.422	0.722
14/28	13.00	16.32	21.89	29.15	37.13	19.35	0.512	0.643	0.862	1.148	1.462	0.762
15/30	14.00	17.32	22.89	30.15	38.13	20.35	0.551	0.682	0.901	1.187	1.501	0.801
16/32	15.00	18.32	23.89	31.15	39.13	21.35	0.591	0.722	0.941	1.227	1.541	0.841
17/34	16.00	19.32	24.89	32.15	40.13	22.35	0.630	0.761	0.980	1.266	1.580	0.880
18/36	17.00	20.32	25.89	33.15	41.13	23.35	0.669	0.800	1.019	1.305	1.619	0.919
19/38	18.00	21.32	26.89	34.15	42.13	24.35	0.709	0.840	1.059	1.345	1.659	0.959
20/40	19.00	22.32	27.89	35.15	43.13	25.35	0.748	0.879	1.098	1.384	1.698	0.998
21/42	20.00	23.32	28.89	36.15	44.13	26.35	0.787	0.918	1.137	1.423	1.737	1.037
22/44	21.00	24.32	29.89	37.15	45.13	27.35	0.827	0.958	1.177	1.463	1.777	1.077
23/46	22.00	25.32	30.89	38.15	46.13	28.35	0.866	0.997	1.216	1.502	1.816	1.116
24/48	23.00	26.32	31.89	39.15	47.13	29.35	0.906	1.037	1.256	1.542	1.856	1.156
25/50	24.00	27.32	32.89	40.15	48.13	30.35	0.945	1.076	1.295	1.581	1.895	1.195
26/52	25.00	28.32	33.89	41.15	49.13	31.35	0.984	1.115	1.334	1.620	1.934	1.234
27/54	26.00	29.32	34.89	42.15	50.13	32.35	1.024	1.155	1.374	1.660	1.974	1.274
28/56	27.00	30.32	35.89	43.15	51.13	33.35	1.063	1.194	1.413	1.699	2.013	1.313
29/58	28.00	31.32	36.89	44.15	52.13	34.35	1.102	1.233	1.452	1.738	2.052	1.352
30/60	29.00	32.32	37.89	45.15	53.13	35.35	1.142	1.273	1.492	1.778	2.092	1.392
31/62	30.00	33.32	38.89	46.15	54.13	36.35	1.181	1.312	1.531	1.817	2.131	1.431
32/64	31.00	34.32	39.89	47.15	55.13	37.35	1.220	1.351	1.570	1.856	2.170	1.470
33/66	32.00	35.32	40.89	48.15	56.13	38.35	1.260	1.391	1.610	1.896	2.210	1.510
34/68	33.00	36.32	41.89	49.15	57.13	39.35	1.299	1.430	1.649	1.935	2.249	1.549
35/70	34.00	37.32	42.89	50.15	58.13	40.35	1.339	1.470	1.689	1.975	2.289	1.589
36/72	35.00	38.32	43.89	51.15	59.13	41.35	1.378	1.509	1.728	2.014	2.328	1.628
37/74	36.00	39.32	44.89	52.15	60.13	42.35	1.417	1.548	1.767	2.053	2.367	1.667
38/76	37.00	40.32	45.89	53.15	61.13	43.35	1.457	1.588	1.807	2.093	2.407	1.707
39/78	38.00	41.32	46.89	54.15	62.13	44.35	1.496	1.627	1.846	2.132	2.446	1.746
40/80	39.00	42.32	47.89	55.15	63.13	45.35	1.535	1.666	1.885	2.171	2.485	1.785
41/82	40.00	43.32	48.89	56.15	64.13	46.35	1.575	1.706	1.925	2.211	2.525	1.825
42/84	41.00	44.32	49.89	57.15	65.13	47.35	1.614	1.745	1.964	2.250	2.564	1.864
43/86	42.00	45.32	50.89	58.15	66.13	48.35	1.654	1.785	2.004	2.290	2.604	1.904
44/88	43.00	46.32	51.89	59.15	67.13	49.35	1.693	1.824	2.043	2.329	2.643	1.943
45/90	44.00	47.32	52.89	60.15	68.13	50.35	1.732	1.863	2.082	2.368	2.682	1.982
46/92	45.00	48.32	53.89	61.15	69.13	51.35	1.772	1.903	2.122	2.408	2.722	2.022
47/94	46.00	49.32	54.89	62.15	70.13	52.35	1.811	1.942	2.161	2.447	2.761	2.061
48/96	47.00	50.32	55.89	63.15	71.13	53.35	1.850	1.981	2.200	2.486	2.800	2.100
49/98	48.00	51.32	56.89	64.15	72.13	54.35	1.890	2.021	2.240	2.526	2.840	2.140
50/100	49.00	52.32	57.89	65.15	73.13	55.35	1.929	2.060	2.279	2.565	2.879	2.179

* Consult Factory For Availability

**1.00 mm [.039"] Contact Centers, 21.84 mm Insulator Height
Right Angle****SPECIFICATIONS**

- Accommodates 1.57 mm $\pm$.20 [.062" $\pm$.008"] PC board
- PA9T or PPS insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

**READOUT****DUAL (D)****TERMINATION TYPE****PCB LAYOUT****MOUNTING STYLE**

1.00 mm [.039"] Contact Centers, 21.84 mm Insulator Height Right Angle



PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

E = 1mm [.039"]

G B E 50 D HA D - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

D = Flush Mounting
N = No Mounting
R = Metal Board Lock
S = Side Mounting
T = Flush Mounting with Threaded Insert

TERMINATION TYPE (Opposite Page)

HA = Staggered Dip Solder, Right Angle

READOUT (Opposite Page)

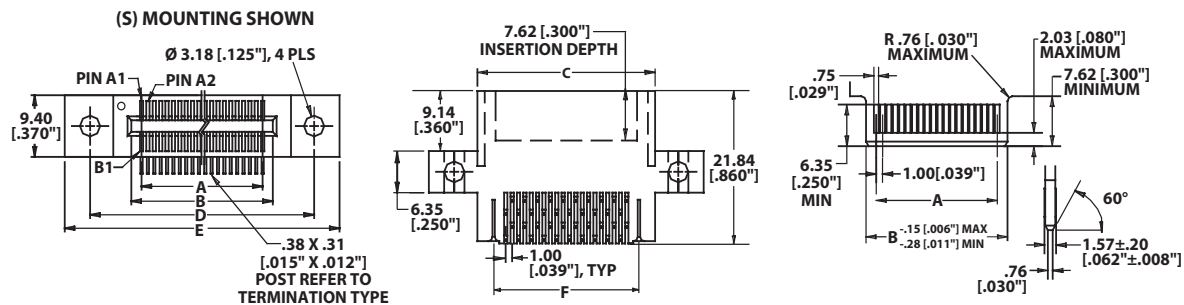
D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in Inches, all others are in Millimeters



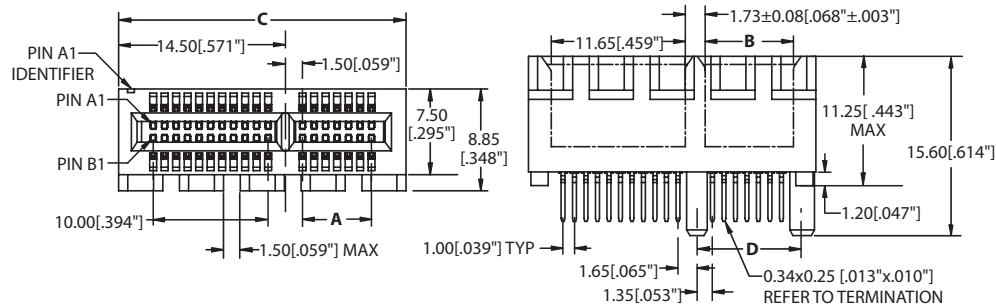
POSITIONS/ CONTACTS	MILLIMETERS						[INCHES]					
	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010
02/04*	1.00	4.32	9.89	17.15	25.13	5.25	0.039	0.170	0.389	0.675	0.989	0.207
03/06*	2.00	5.32	10.89	18.15	26.13	6.25	0.079	0.210	0.429	0.715	1.029	0.246
04/08*	3.00	6.32	11.89	19.15	27.13	7.25	0.118	0.249	0.468	0.754	1.068	0.285
05/10	4.00	7.32	12.89	20.15	28.13	8.25	0.157	0.288	0.507	0.793	1.107	0.325
06/12	5.00	8.32	13.89	21.15	29.13	9.25	0.197	0.328	0.547	0.833	1.147	0.364
07/14	6.00	9.32	14.89	22.15	30.13	10.25	0.236	0.367	0.586	0.872	1.186	0.404
08/16	7.00	10.32	15.89	23.15	31.13	11.25	0.276	0.407	0.626	0.912	1.226	0.443
09/18	8.00	11.32	16.89	24.15	32.13	12.25	0.315	0.446	0.665	0.951	1.265	0.482
10/20	9.00	12.32	17.89	25.15	33.13	13.25	0.354	0.485	0.704	0.990	1.304	0.522
11/22	10.00	13.32	18.89	26.15	34.13	14.25	0.394	0.525	0.744	1.030	1.344	0.561
12/24	11.00	14.32	19.89	27.15	35.13	15.25	0.433	0.564	0.783	1.069	1.383	0.600
13/26	12.00	15.32	20.89	28.15	36.13	16.25	0.472	0.603	0.822	1.108	1.422	0.640
14/28	13.00	16.32	21.89	29.15	37.13	17.25	0.512	0.643	0.862	1.148	1.462	0.679
15/30	14.00	17.32	22.89	30.15	38.13	18.25	0.551	0.682	0.901	1.187	1.501	0.719
16/32	15.00	18.32	23.89	31.15	39.13	19.25	0.591	0.722	0.941	1.227	1.541	0.758
17/34	16.00	19.32	24.89	32.15	40.13	20.25	0.630	0.761	0.980	1.266	1.580	0.797
18/36	17.00	20.32	25.89	33.15	41.13	21.25	0.669	0.800	1.019	1.305	1.619	0.937
19/38	18.00	21.32	26.89	34.15	42.13	22.25	0.709	0.840	1.059	1.345	1.659	0.876
20/40	19.00	22.32	27.89	35.15	43.13	23.25	0.748	0.879	1.098	1.384	1.698	0.915
21/42	20.00	23.32	28.89	36.15	44.13	24.25	0.787	0.918	1.137	1.423	1.737	0.955
22/44	21.00	24.32	29.89	37.15	45.13	25.25	0.827	0.958	1.177	1.463	1.777	0.994
23/46	22.00	25.32	30.89	38.15	46.13	26.25	0.866	0.997	1.216	1.502	1.816	1.033
24/48	23.00	26.32	31.89	39.15	47.13	27.25	0.906	1.037	1.256	1.542	1.856	1.073
25/50	24.00	27.32	32.89	40.15	48.13	28.25	0.945	1.076	1.295	1.581	1.895	1.112
26/52	25.00	28.32	33.89	41.15	49.13	29.25	0.984	1.115	1.334	1.620	1.934	1.152
27/54	26.00	29.32	34.89	42.15	50.13	30.25	1.024	1.155	1.374	1.660	1.974	1.191
28/56	27.00	30.32	35.89	43.15	51.13	31.25	1.063	1.194	1.413	1.699	2.013	1.230
29/58	28.00	31.32	36.89	44.15	52.13	32.25	1.102	1.233	1.452	1.738	2.052	1.270
30/60	29.00	32.32	37.89	45.15	53.13	33.25	1.142	1.273	1.492	1.778	2.092	1.309
31/62	30.00	33.32	38.89	46.15	54.13	34.25	1.181	1.312	1.531	1.817	2.131	1.348
32/64	31.00	34.32	39.89	47.15	55.13	35.25	1.220	1.351	1.570	1.856	2.170	1.388
33/66	32.00	35.32	40.89	48.15	56.13	36.25	1.260	1.391	1.610	1.896	2.210	1.427
34/68	33.00	36.32	41.89	49.15	57.13	37.25	1.299	1.430	1.649	1.935	2.249	1.467
35/70	34.00	37.32	42.89	50.15	58.13	38.25	1.339	1.470	1.689	1.975	2.289	1.506
36/72	35.00	38.32	43.89	51.15	59.13	39.25	1.378	1.509	1.728	2.014	2.328	1.545
37/74	36.00	39.32	44.89	52.15	60.13	40.25	1.417	1.548	1.767	2.053	2.367	1.585
38/76	37.00	40.32	45.89	53.15	61.13	41.25	1.457	1.588	1.807	2.093	2.407	1.624
39/78	38.00	41.32	46.89	54.15	62.13	42.25	1.496	1.627	1.846	2.132	2.446	1.663
40/80	39.00	42.32	47.89	55.15	63.13	43.25	1.535	1.666	1.885	2.171	2.485	1.703
41/82	40.00	43.32	48.89	56.15	64.13	44.25	1.575	1.706	1.925	2.211	2.525	1.742
42/84	41.00	44.32	49.89	57.15	65.13	45.25	1.614	1.745	1.964	2.250	2.564	1.781
43/86	42.00	45.32	50.89	58.15	66.13	46.25	1.654	1.785	2.004	2.290	2.604	1.821
44/88	43.00	46.32	51.89	59.15	67.13	47.25	1.693	1.824	2.043	2.329	2.643	1.860
45/90	44.00	47.32	52.89	60.15	68.13	48.25	1.732	1.863	2.082	2.368	2.682	1.900
46/92	45.00	48.32	53.89	61.15	69.13	49.25	1.772	1.903	2.122	2.408	2.722	1.939
47/94	46.00	49.32	54.89	62.15	70.13	50.25	1.811	1.942	2.161	2.447	2.761	1.978
48/96	47.00	50.32	55.89	63.15	71.13	51.25	1.850	1.981	2.200	2.486	2.800	2.018
49/98	48.00	51.32	56.89	64.15	72.13	52.25	1.890	2.021	2.240	2.526	2.840	2.057
50/100	49.00	52.32	57.89	65.15	73.13	53.25	1.929	2.060	2.279	2.565	2.879	2.096

* Consult Factory For Availability



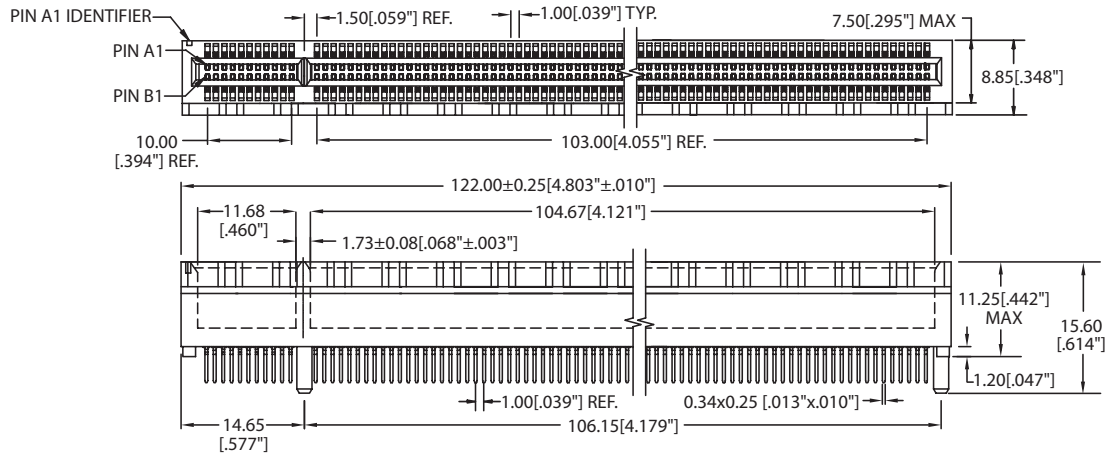
1.00 mm [.039"] Contact Centers, PCI Express, Dip Solder

DIMENSIONS Dimensions in [] are in Inches, all others are in Millimeters

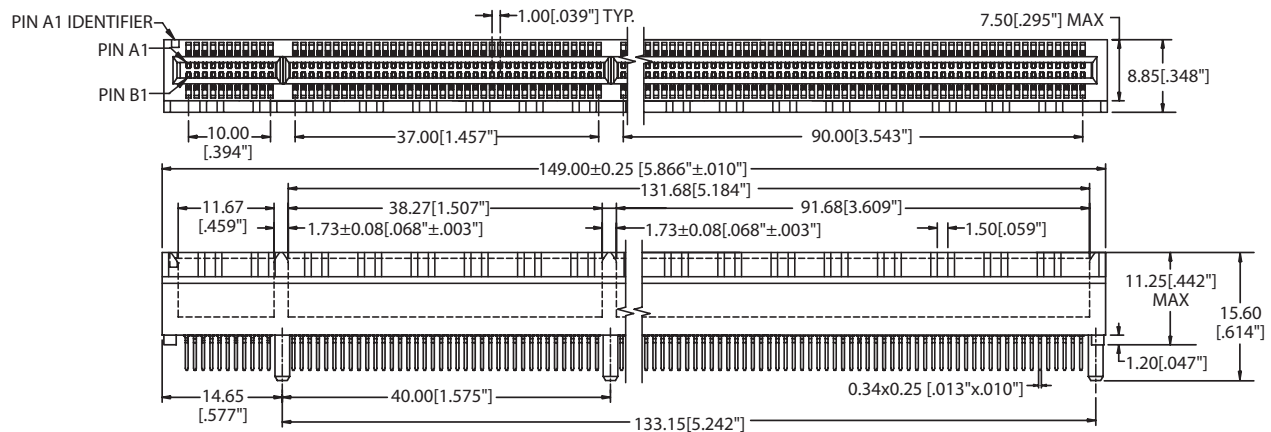


STAGGERED DIP SOLDER (HH)

POSITIONS/ CONTACTS	MILLIMETERS				[INCHES]			
	A ± 0.15	B ± 0.15	C ± 0.15	D ± 0.15	A ± 0.006"	B ± 0.006"	C ± 0.006"	D ± 0.006"
18/36	6.00	7.65	25.00	9.15	0.236	0.301	0.984	0.360
32/64	20.00	21.65	39.00	23.15	0.787	0.852	1.535	0.911
49/98	37.00	38.65	56.00	40.15	1.457	1.522	2.205	1.581
82/164	70.00	71.65	89.00	73.15	2.756	2.821	3.504	2.880



115/230 POSITION, STAGGERED DIP SOLDER (HH)

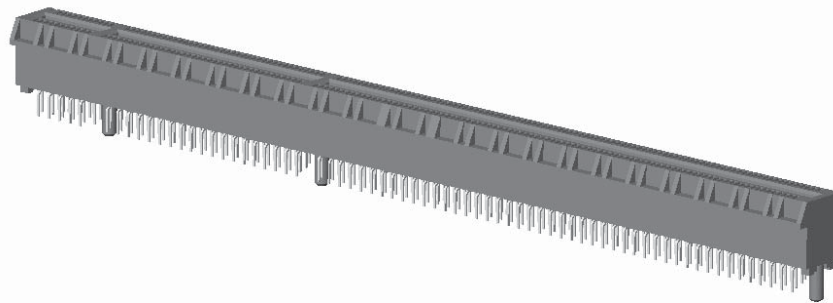


140/280 POSITION, STAGGERED DIP SOLDER (HH)



PART NUMBER CODING

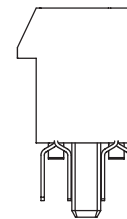
MATERIALS (INSULATOR/CONTACT)	N	B	E	18	D	HH	N	-T9	2	1	COLOR
N = Nylon 6T/Phosphor Bronze											1 = Black Other Options Available
CONTACT FINISH - RoHS Compliant											TAIL LENGTH
All platings are Lead Free and have .000050" Nickel underplate											1 = 2.30mm [.091"] 2 = 2.54mm [.100"] 3 = 3.00mm [.118"]
Contact Surface											MOUNTING STYLE
B = .000010" Gold											N = No Mounting
C = .000030" Gold											TERMINATION TYPE
W = Gold Flash											HH = Staggered Dip Solder
CONTACT CENTERS											READOUT
E = 1mm [.039"]											D = Dual
NUMBER OF CONTACT POSITIONS											
18, 32, 49, 82, 115, 140											



SPECIFICATIONS

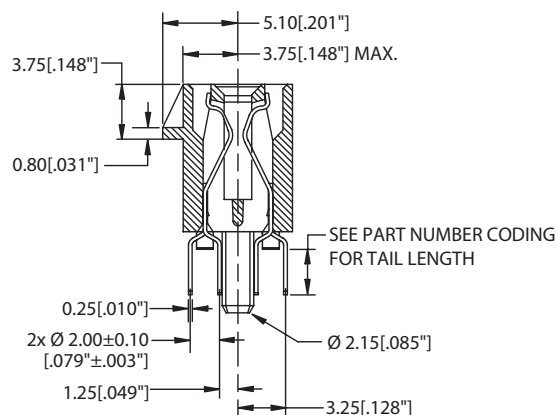
- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm ± 0.20mm [.062" ± .008"] PC board
- Nylon 6T insulator
- 1.1 amp current rating per contact

READOUT



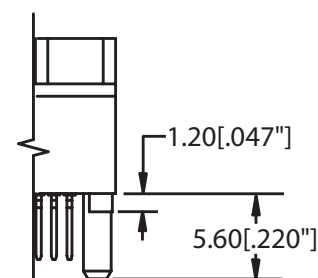
DUAL (D)

TERMINATION TYPE



Staggered Dip Solder (HH)

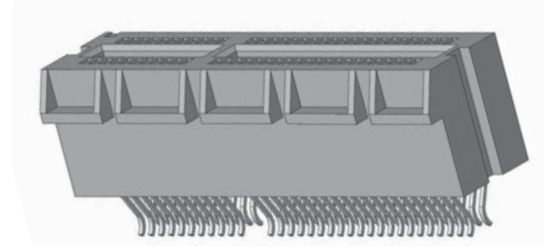
MOUNTING STYLE



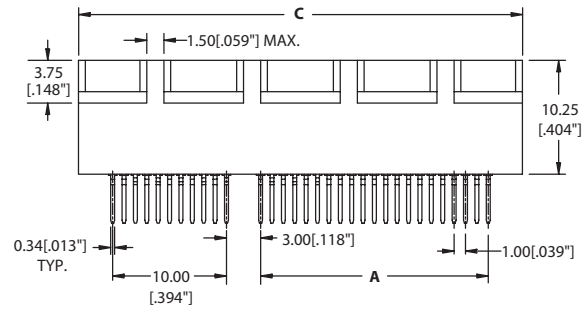
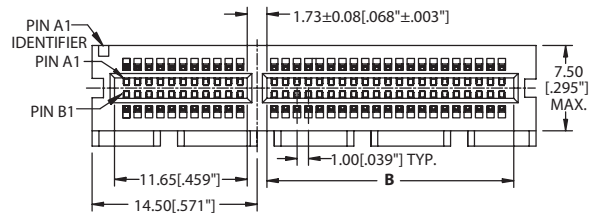
No Mounting Ears (N)



1.00 mm [.039"] Contact Centers, PCI Express, Card Extender for Surface Mount

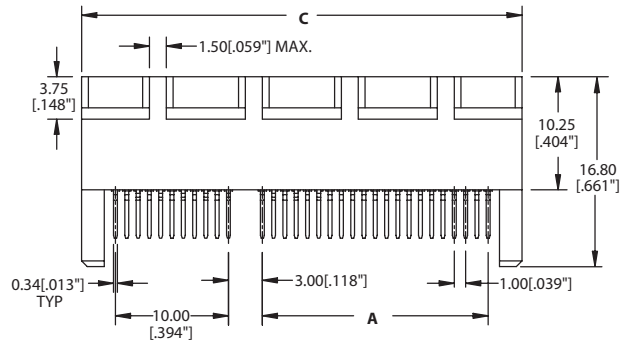
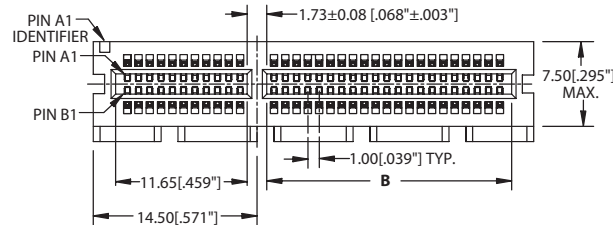


DIMENSIONS Dimensions in [] are in Inches, all others are in Millimeters



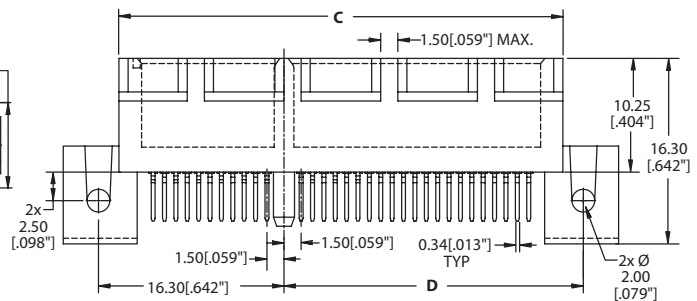
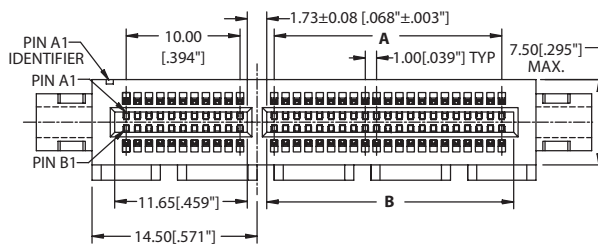
STRADDLE MOUNT

Example Part Number: **NBE18DHRN-T941**



STRADDLE MOUNT with PEGS

Example Part Number: **NBE18DHRN-T9410**



STRADDLE MOUNT with CLIPS

Example Part Number: **NBE18DHRQ-T941**

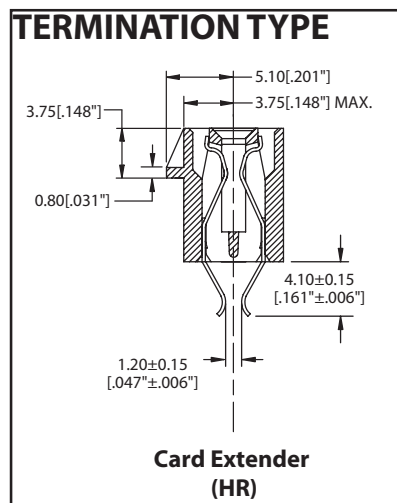
POSITIONS/ CONTACTS	MILLIMETERS				[INCHES]			
	A ± 0.15	B ± 0.15	C ± 0.15	D ± 0.15	A ± 0.006"	B ± 0.006"	C ± 0.006"	D ± 0.006"
18/36	6.00	7.65	25.00	12.30	0.236	0.301	0.984	0.484
32/64	20.00	21.65	39.00	26.30	0.787	0.852	1.535	1.035
49/98	37.00	38.65	56.00	43.30	1.457	1.522	2.205	1.705
82/164	70.00	71.65	89.00	76.30	2.756	2.821	3.504	3.004



**1.00 mm [.039"] Contact Centers, PCI Express,
Card Extender for Surface Mount**

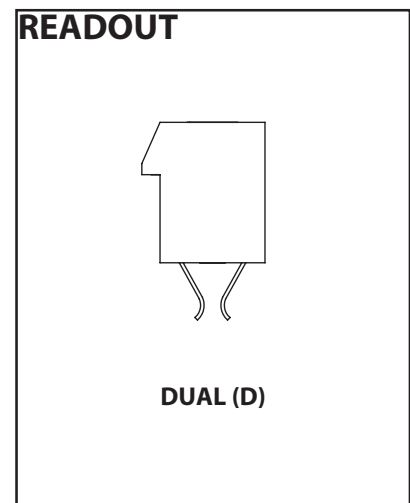
PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)	N	B	E	18	D	HR	N	-T9	4	1	0	MODIFICATION CODE OMIT FOR STANDARD 0 = Pegs
N = Nylon 6T/Phosphor Bronze												
CONTACT FINISH - RoHS Compliant												COLOR 1 = Black Other Options Available
All platings are Lead Free and have .000050" Nickel underplate												
Contact Surface												TAIL LENGTH 4 = 4.10mm [.161"]
B = .000010" Gold												
C = .000030" Gold												
W = Gold Flash												
Termination												MOUNTING STYLE N = No Mounting Q = Straddle Mount with Clips
CONTACT CENTERS												
E = 1mm [.039"]												
NUMBER OF CONTACT POSITIONS												TERMINATION TYPE HR = Card Extender for Straddle Mount
18, 32, 49, 82												
READOUT												
D = Dual												

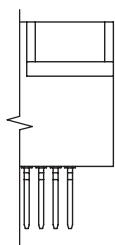


SPECIFICATIONS

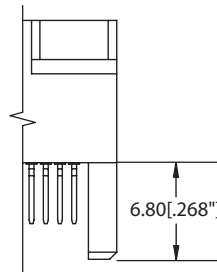
- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm ± 0.20mm [.062" ± .008"] PC board
- Nylon 6T insulator
- 1.1 amp current rating per contact



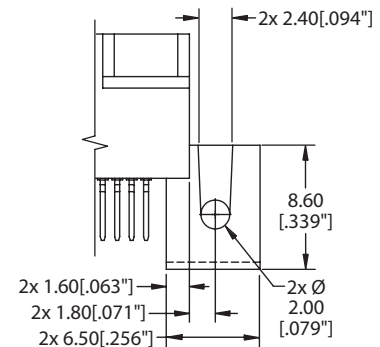
MOUNTING STYLE



NO MOUNTING (N)



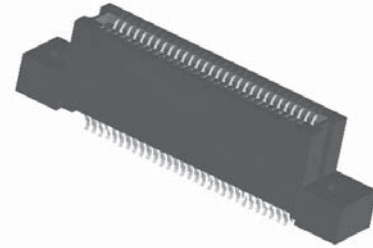
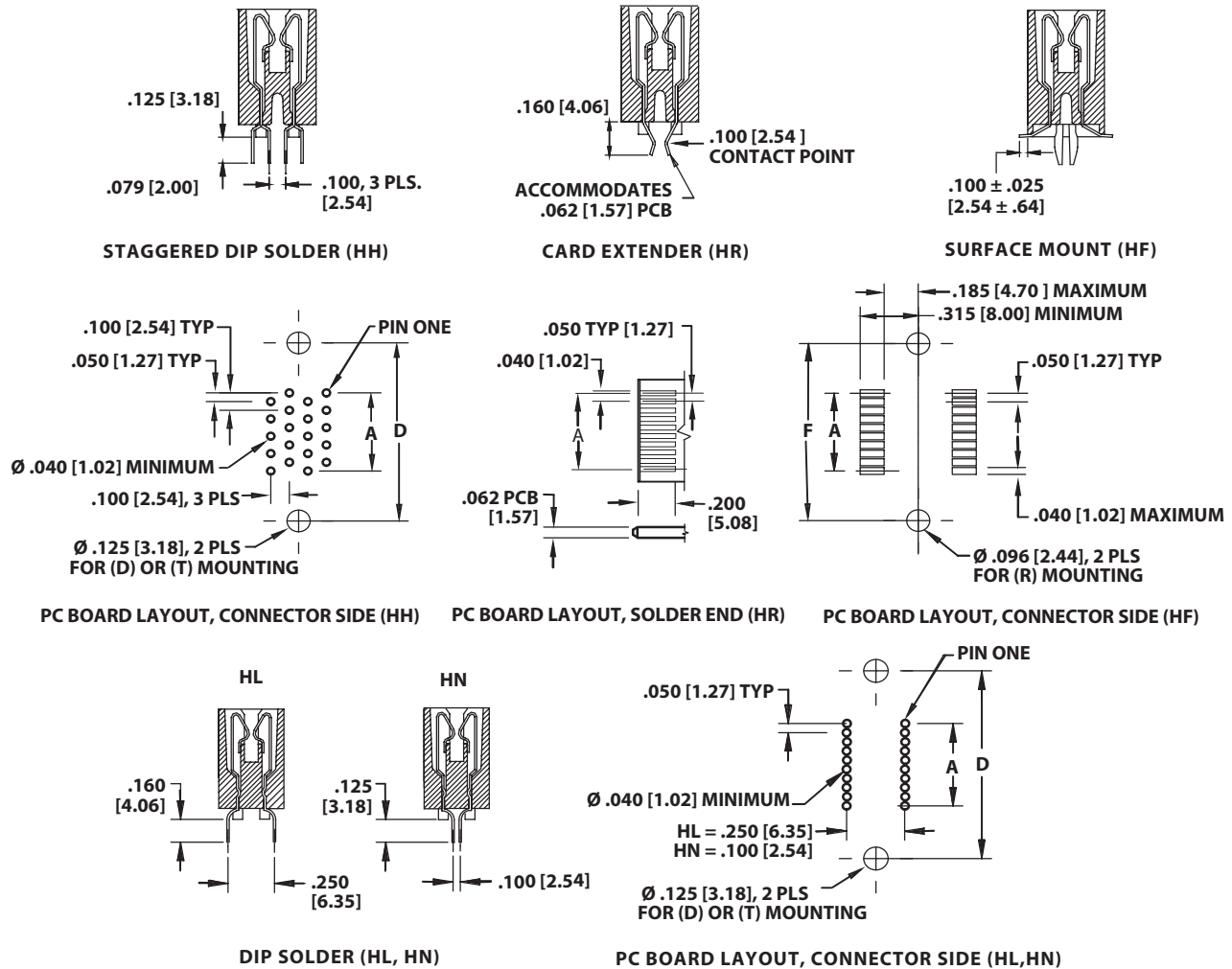
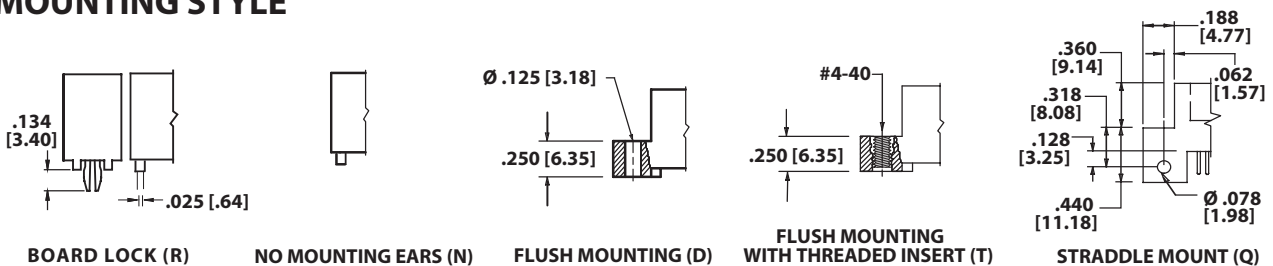
WITH PEGS
('N' Mounting Style with '0' Modification Code)



WITH CLIPS (Q)

**.050" [1.27mm] Contact Centers, .610" Insulator Height
Dip Solder/Card Extender/SMT****SPECIFICATIONS**

- Accommodates $.062" \pm .008"$ [1.57 $\pm$.20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

**TERMINATION TYPE****MOUNTING STYLE**

**.050" [1.27mm] Contact Centers, .610" Insulator Height
Dip Solder/Card Extender/SMT**

PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B = .00010" Gold .000100" Pure Tin, Matte
C = .00030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050 [1.27mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

G B B 40 D HH D - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
Q = Straddle Mount (Card Extender Only)
R = Metal Boardlocks

TERMINATION TYPE (Opposite Page)

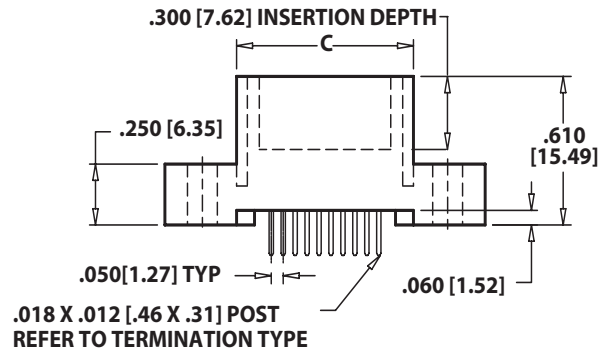
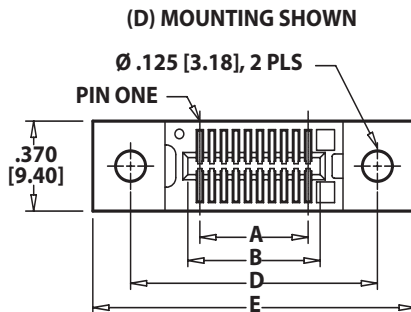
HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount
HL = .250 x .160 [6.35mm x 4.06] Dip Solder
HN = .100 x .125 [2.54mm x 3.18] Dip Solder
(Replaces Terminations CH, CR, CF, CL, CN)

READOUT (Opposite Page)

D = Dual

DIMENSIONS

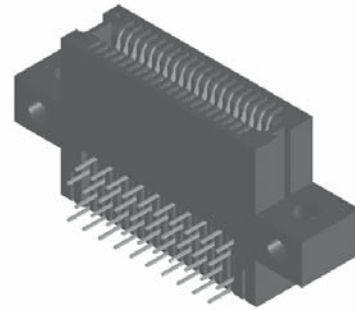
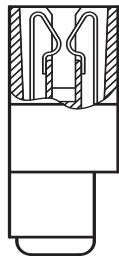
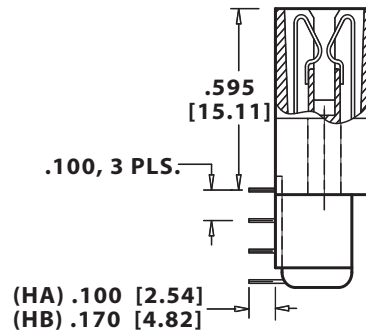
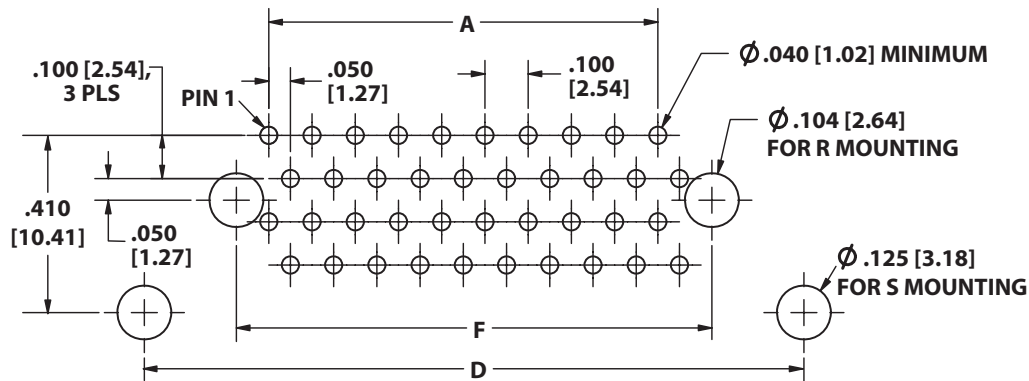
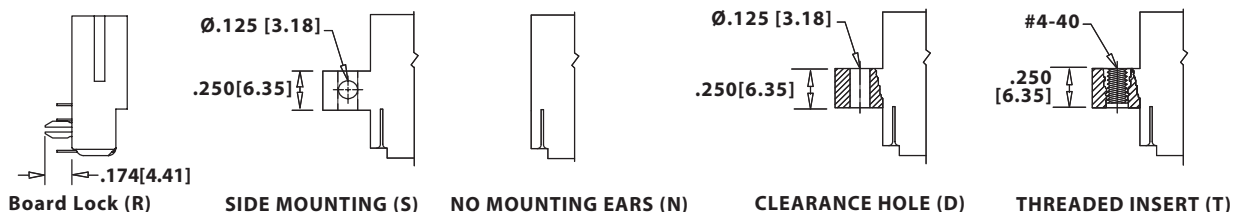
Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25
05/10	0.200	0.300	0.490	0.776	1.090	0.350	5.08	7.62	12.45	19.71	27.69	8.89
06/12	0.250	0.350	0.540	0.826	1.140	0.400	6.35	8.89	13.72	20.98	28.96	10.16
09/18	0.400	0.500	0.690	0.976	1.290	0.550	10.16	12.70	17.53	24.79	32.77	13.97
10/20	0.450	0.550	0.740	1.026	1.340	0.600	11.43	13.97	18.80	26.06	34.04	15.24
13/26	0.600	0.700	0.890	1.176	1.490	0.750	15.24	17.78	22.61	29.87	37.85	19.05
14/28	0.650	0.750	0.940	1.226	1.540	0.800	16.51	19.05	23.88	31.14	39.12	20.32
15/30	0.700	0.800	0.990	1.276	1.590	0.850	17.78	20.32	25.15	32.41	40.39	21.59
20/40	0.950	1.050	1.240	1.526	1.840	1.100	24.13	26.67	31.50	38.76	46.74	27.94
22/44	1.050	1.150	1.340	1.626	1.940	1.200	26.67	29.21	34.04	41.30	49.28	30.48
24/48	1.150	1.250	1.440	1.726	2.040	1.300	29.21	31.75	36.58	43.84	51.82	33.02
25/50	1.200	1.300	1.490	1.776	2.090	1.350	30.48	33.02	37.85	45.11	53.09	34.29
30/60	1.450	1.550	1.740	2.026	2.340	1.600	36.83	39.37	44.20	51.46	59.44	40.64
34/68	1.650	1.750	1.940	2.226	2.540	1.800	41.91	44.45	49.28	56.54	64.52	45.72
35/70	1.700	1.800	1.990	2.276	2.590	1.850	43.18	45.72	50.55	57.81	65.79	46.99
40/80	1.950	2.050	2.240	2.526	2.840	2.100	49.53	52.07	56.90	64.16	72.14	53.34
45/90	2.200	2.300	2.490	2.776	3.090	2.350	55.88	58.42	63.25	70.51	78.49	59.69
50/100	2.450	2.550	2.740	3.026	3.340	2.600	62.23	64.77	69.60	76.86	84.84	66.04
55/110	2.700	2.800	2.990	3.276	3.590	2.850	68.58	71.12	75.95	83.21	91.19	72.39
60/120	2.950	3.050	3.240	3.526	3.840	3.100	74.93	77.47	82.30	89.56	97.54	78.74
64/128	3.150	3.250	3.440	3.726	4.040	3.300	80.01	82.55	87.38	94.64	102.62	83.82
65/130	3.200	3.300	3.490	3.776	4.090	3.350	81.28	83.82	88.65	95.91	103.89	85.09
66/132	3.250	3.350	3.540	3.826	4.140	3.400	82.55	85.09	89.92	97.18	105.16	86.36
70/140	3.450	3.550	3.740	4.026	4.340	3.600	87.63	90.17	95.00	102.26	110.24	91.44
75/150	3.700	3.800	3.990	4.276	4.590	3.850	93.98	96.52	101.35	108.61	116.59	97.79
80/160	3.950	4.050	4.240	4.526	4.840	4.100	100.33	102.87	107.70	114.96	122.94	104.14
85/170	4.200	4.300	4.490	4.776	5.090	4.350	106.68	109.22	114.05	121.31	129.29	110.49
90/180	4.450	4.550	4.740	5.026	5.340	4.600	113.03	115.57	120.40	127.66	135.64	116.84
95/190	4.700	4.800	4.990	5.276	5.590	4.850	119.38	121.92	126.75	134.01	141.99	123.19
100/200	4.950	5.050	5.240	5.526	5.840	5.100	125.73	128.27	133.10	140.36	148.34	129.54
105/210	5.200	5.300	5.490	5.776	6.090	5.350	132.08	134.62	139.45	146.71	154.69	135.89
108/216	5.350	5.450	5.640	5.926	6.240	5.500	135.89	138.43	143.26	150.52	158.50	139.70
110/220	5.450	5.550	5.740	6.026	6.340	5.600	138.43	140.97	145.80	153.06	161.04	142.24
120/240	5.950	6.050	6.240	'N' Mounting Only		6.100	151.13	153.67	158.50	'N' Mounting Only		154.94

**.050" [1.27mm] Contact Centers, .915" Insulator Height
Right Angle****SPECIFICATIONS**

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

**READOUT****DUAL (D)****TERMINATION TYPE****PCB LAYOUT****PCB LAYOUT, COMPONENT SIDE****MOUNTING STYLE**

**.050" [1.27mm] Contact Centers, .915" Insulator Height
Right Angle**



PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

G B B 10 D HA S - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

TERMINATION TYPE (Opposite Page)

HA = .100" Staggered Dip Solder, Right Angle
HB = .170" Staggered Dip Solder, Right Angle

READOUT (Opposite Page)

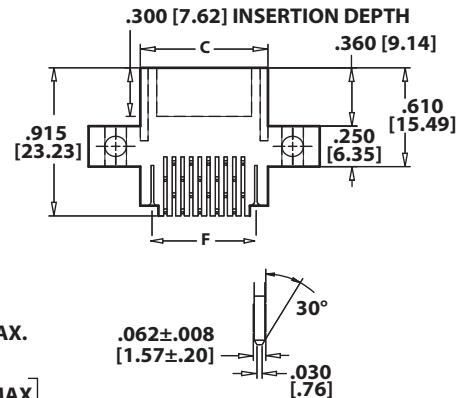
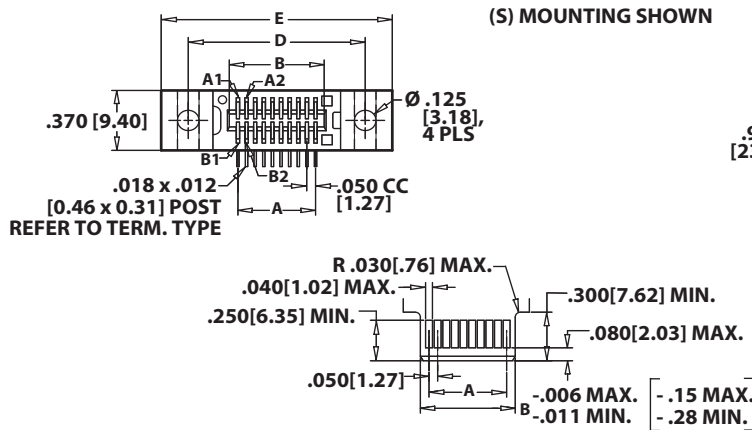
D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



CARD LAYOUT

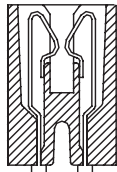
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A	B	C	D	E	F	A	B	C	D	E	F
	±.005	±.005	±.015	±.010	±.020	±.010	±.13	±.13	±.38	±.25	±.51	±.25
05/10	0.200	0.300	0.490	0.776	1.090	0.350	5.08	7.62	12.45	19.71	27.69	8.89
06/12	0.250	0.350	0.540	0.826	1.140	0.400	6.35	8.89	13.72	20.98	28.96	10.16
09/18	0.400	0.500	0.690	0.976	1.290	0.550	10.16	12.70	17.53	24.79	32.77	13.97
10/20	0.450	0.550	0.740	1.026	1.340	0.600	11.43	13.97	18.80	26.06	34.04	15.24
13/26	0.600	0.700	0.890	1.176	1.490	0.750	15.24	17.78	22.61	29.87	37.85	19.05
14/28	0.650	0.750	0.940	1.226	1.540	0.800	16.51	19.05	23.88	31.14	39.12	20.32
15/30	0.700	0.800	0.990	1.276	1.590	0.850	17.78	20.32	25.15	32.41	40.39	21.59
20/40	0.950	1.050	1.240	1.526	1.840	1.100	24.13	26.67	31.50	38.76	46.74	27.94
22/44	1.050	1.150	1.340	1.626	1.940	1.200	26.67	29.21	34.04	41.30	49.28	30.48
24/48	1.150	1.250	1.440	1.726	2.040	1.300	29.21	31.75	36.58	43.84	51.82	33.02
25/50	1.200	1.300	1.490	1.776	2.090	1.350	30.48	33.02	37.85	45.11	53.09	34.29
30/60	1.450	1.550	1.740	2.026	2.340	1.600	36.83	39.37	44.20	51.46	59.44	40.64
34/68	1.650	1.750	1.940	2.226	2.540	1.800	41.91	44.45	49.28	56.54	64.52	45.72
35/70	1.700	1.800	1.990	2.276	2.590	1.850	43.18	45.72	50.55	57.81	65.79	46.99
40/80	1.950	2.050	2.240	2.526	2.840	2.100	49.53	52.07	56.90	64.16	72.14	53.34
45/90	2.200	2.300	2.490	2.776	3.090	2.350	55.88	58.42	63.25	70.51	78.49	59.69
50/100	2.450	2.550	2.740	3.026	3.340	2.600	62.23	64.77	69.60	76.86	84.84	66.04
55/110	2.700	2.800	2.990	3.276	3.590	2.850	68.58	71.12	75.95	83.21	91.19	72.39
60/120	2.950	3.050	3.240	3.526	3.840	3.100	74.93	77.47	82.30	89.56	97.54	78.74
64/128	3.150	3.250	3.440	3.726	4.040	3.300	80.01	82.55	87.38	94.64	102.62	83.82
65/130	3.200	3.300	3.490	3.776	4.090	3.350	81.28	83.82	88.65	95.91	103.89	85.09
66/132	3.250	3.350	3.540	3.826	4.140	3.400	82.55	85.09	89.92	97.18	105.16	86.36
70/140	3.450	3.550	3.740	4.026	4.340	3.600	87.63	90.17	95.00	102.26	110.24	91.44
75/150	3.700	3.800	3.990	4.276	4.590	3.850	93.98	96.52	101.35	108.61	116.59	97.79
80/160	3.950	4.050	4.240	4.526	4.840	4.100	100.33	102.87	107.70	114.96	122.94	104.14
85/170	4.200	4.300	4.490	4.776	5.090	4.350	106.68	109.22	114.05	121.31	129.29	110.49
90/180	4.450	4.550	4.740	5.026	5.340	4.600	113.03	115.57	120.40	127.66	135.64	116.84
95/190	4.700	4.800	4.990	5.276	5.590	4.850	119.38	121.92	126.75	134.01	141.99	123.19
100/200	4.950	5.050	5.240	5.526	5.840	5.100	125.73	128.27	133.10	140.36	148.34	129.54
105/210	5.200	5.300	5.490	5.776	6.090	5.350	132.08	134.62	139.45	146.71	154.69	135.89
108/216	5.350	5.450	5.640	5.926	6.240	5.500	135.89	138.43	143.26	150.52	158.50	139.70
110/220	5.450	5.550	5.740	6.026	6.340	5.600	138.43	140.97	145.80	153.06	161.04	142.24
120/240	5.950	6.050	6.240	'N' Mounting Only		6.100	151.13	153.67	158.50	'N' Mounting Only		154.94



SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board (Consult factory for other board thicknesses)
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

READOUT

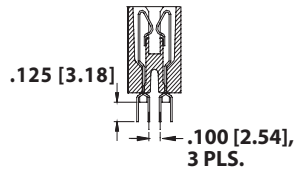


DUAL (D)

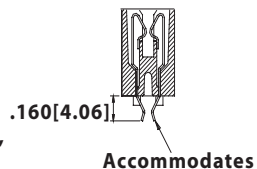


TERMINATION TYPE

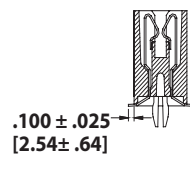
Consult Factory for PC Board Layouts



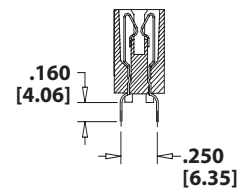
STAGGERED DIP SOLDER (HH)



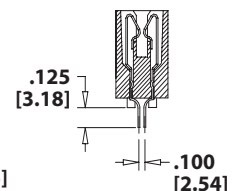
Accommodates
.062 PCB
CARD EXTENDER (HR)



SURFACE MOUNT (HF)

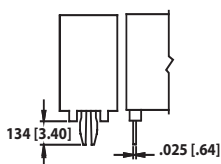


DIP SOLDER (HL)



DIP SOLDER (HN)

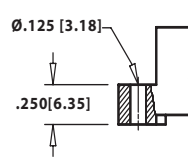
MOUNTING STYLE



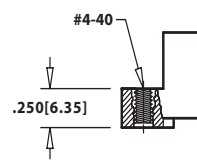
BOARD LOCK (R)



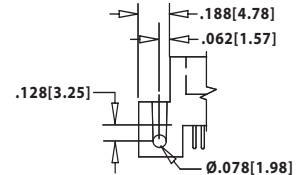
NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



FLUSH MOUNTING WITH THREADED INSERT (T)



STRADDLE MOUNT (Q)

**.050" [1.27mm] Contact Centers, .610" Insulator Height
[MCA] Dip Solder/Card Extender/SMT**

Industry Standard Part

PART NUMBER CODING

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface **Termination**
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

NUMBER OF CONTACT POSITIONS

56, 66, 91, 106

G B B 56 D HH D - S578

MODIFICATION (Consult Factory)

-S578 = Card Slot Barriers With Guide Posts
-S621 = Card Slot Barriers Without Guide Posts

MOUNTING STYLE

N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Insert
Q = Straddle Mount (Card Extender Only)
R = Metal Board Lock

TERMINATION TYPE

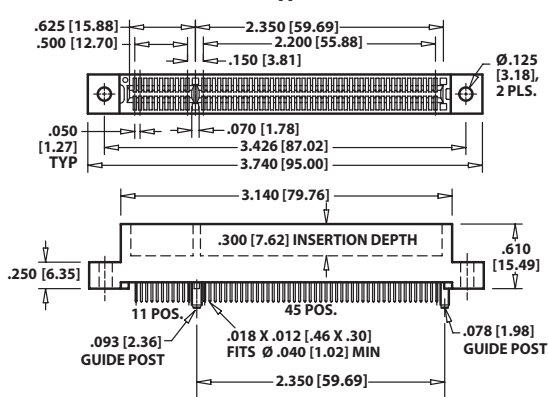
HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

READOUT

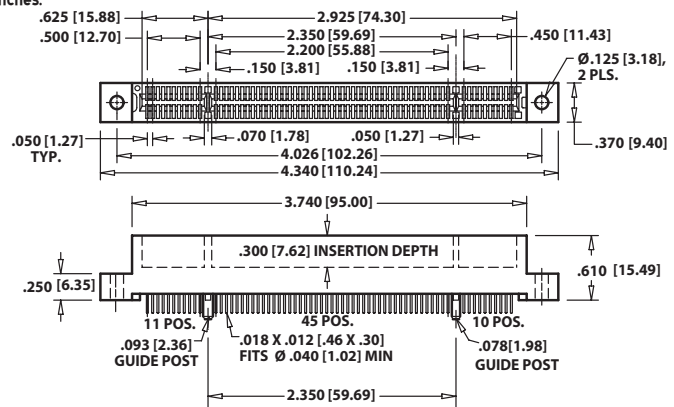
D = Dual

DIMENSIONS

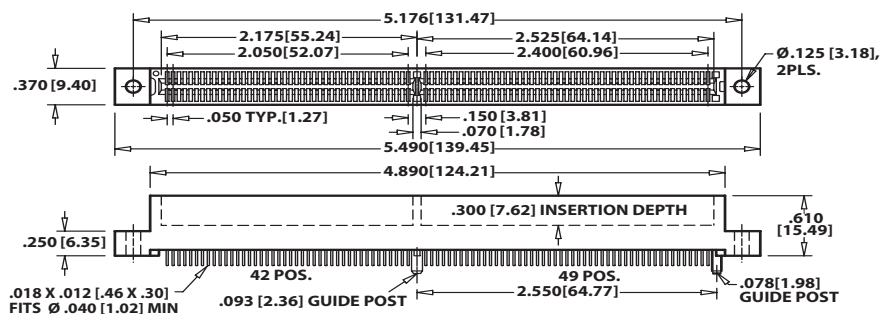
Dimensions in [] are in millimeters, all others are in inches.



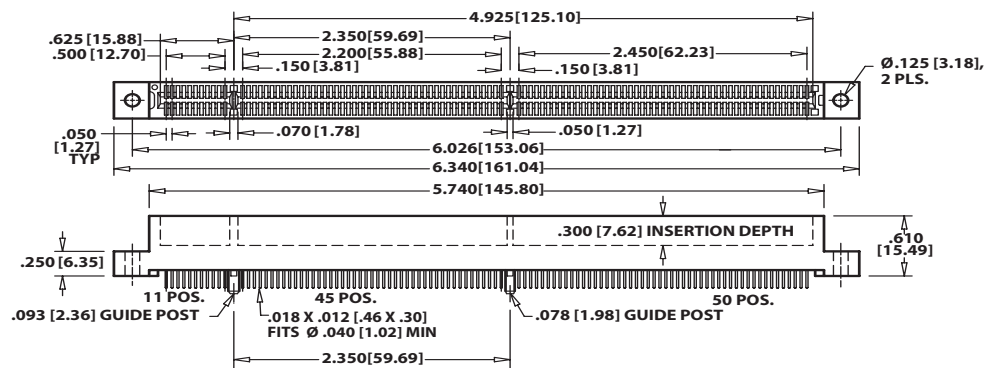
GBB56DHHD-S578, 56 (11/45) POSITIONS



GBB66DHHD-S578, 66 (11/45/10) POSITIONS



GBB91DHHD-S578, 91 (42/49) POSITIONS



GBB106DHHD-S578, 106 (11/45/50) POSITIONS

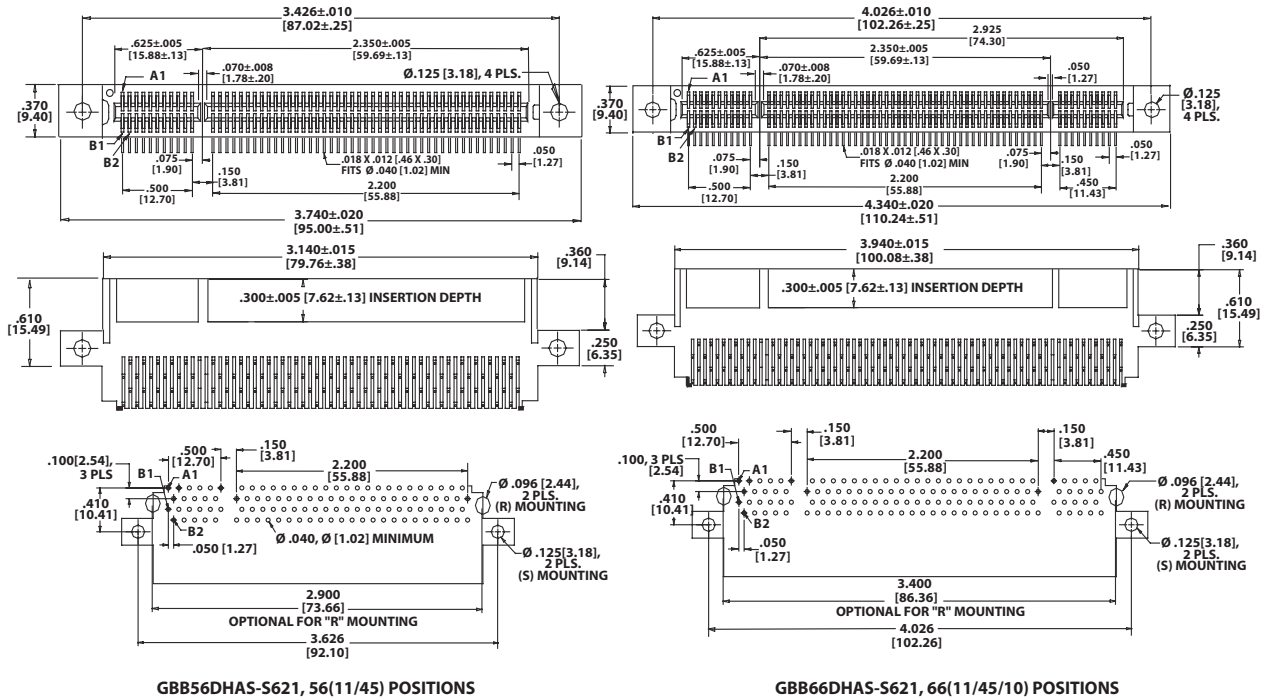


**.050" [1.27mm] Contact Centers, .915" Insulator Height
[MCA] Right Angle**

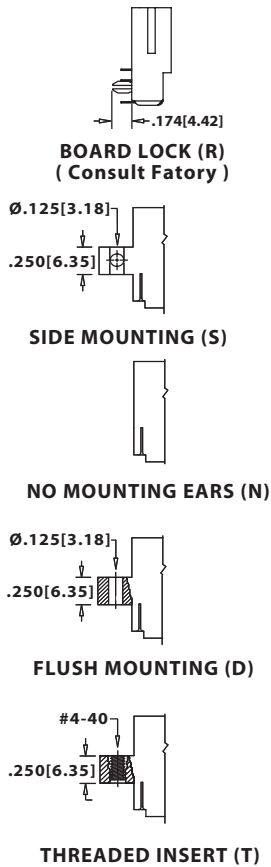
Industry Standard Part

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

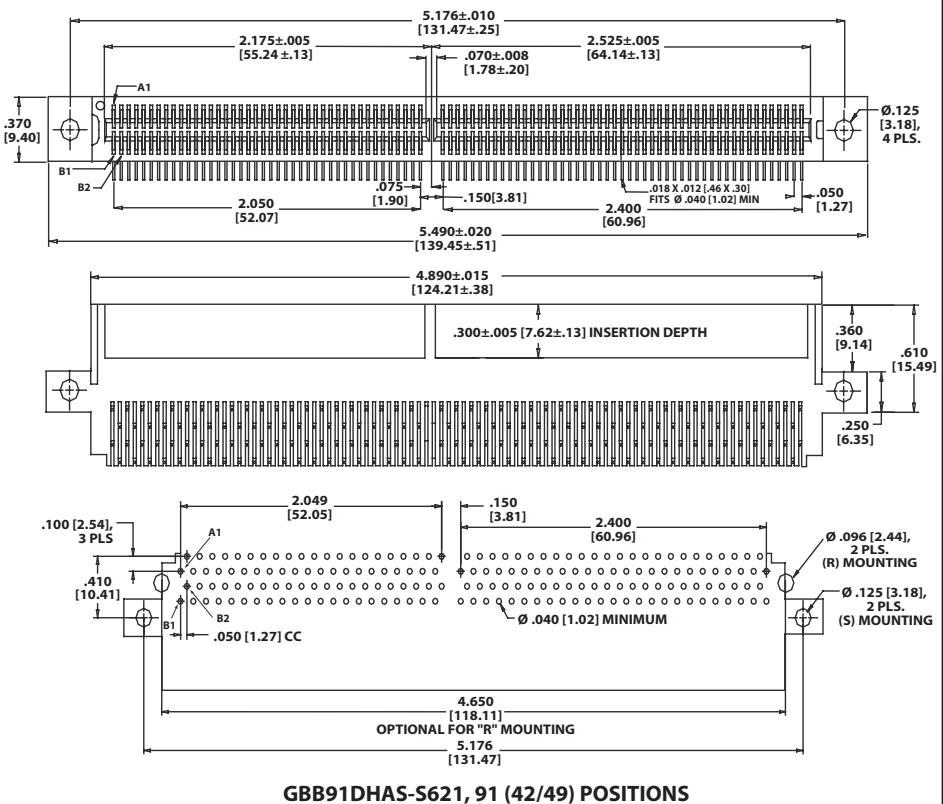


MOUNTING STYLE



DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.





**.050" [1.27mm] Contact Centers, .915" Insulator Height
[MCA] Right Angle**

Industry Standard Part

PART NUMBER CODING

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

B = .00010" Gold .000100" Pure Tin, Matte
C = .00030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

G B B 56 D HA D - S621

MODIFICATION (CONSULT FACTORY)

-S621 = Card Slot Barriers Without Guide Posts

MOUNTING STYLE (Opposite Page)

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

TERMINATION TYPE

HA = .100" [2.54] Staggered Dip Solder, Right Angle
HB = .170" [4.32] Staggered Dip Solder, Right Angle

READOUT

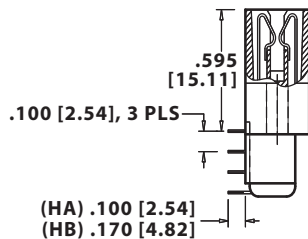
D = Dual

NUMBER OF CONTACT POSITIONS

56 = 11/45
66 = 11/45/10
91 = 42/49
106 = 11/45/50

Sullins Edgecards

TERMINATION TYPE

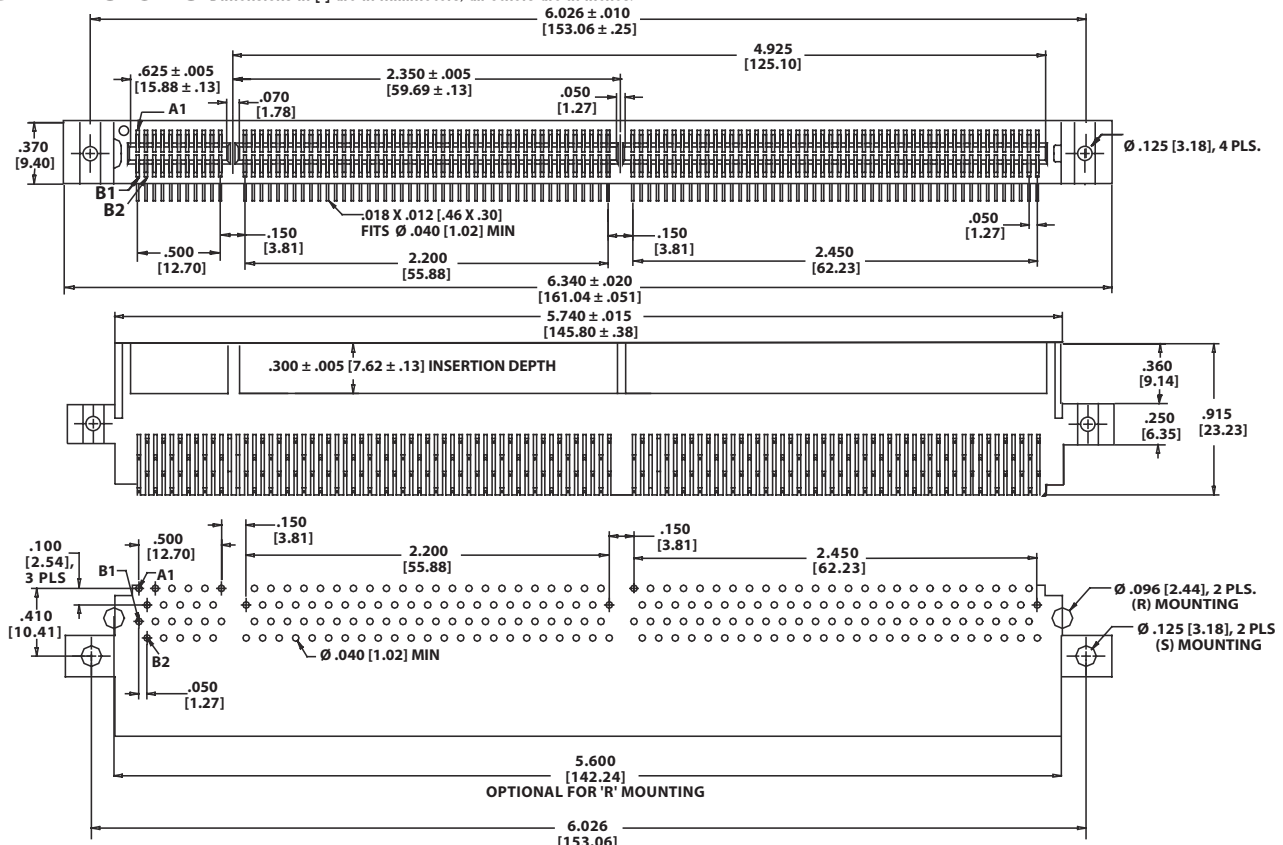


SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



**BOARD LAYOUT, CONNECTOR SIDE
GBB106DHAS-S621, 64 BIT, 5 VOLT**

**.050" [1.27mm] Contact Centers, .610" Insulator Height
[PCI] Dip Solder/Card Extender/SMT**

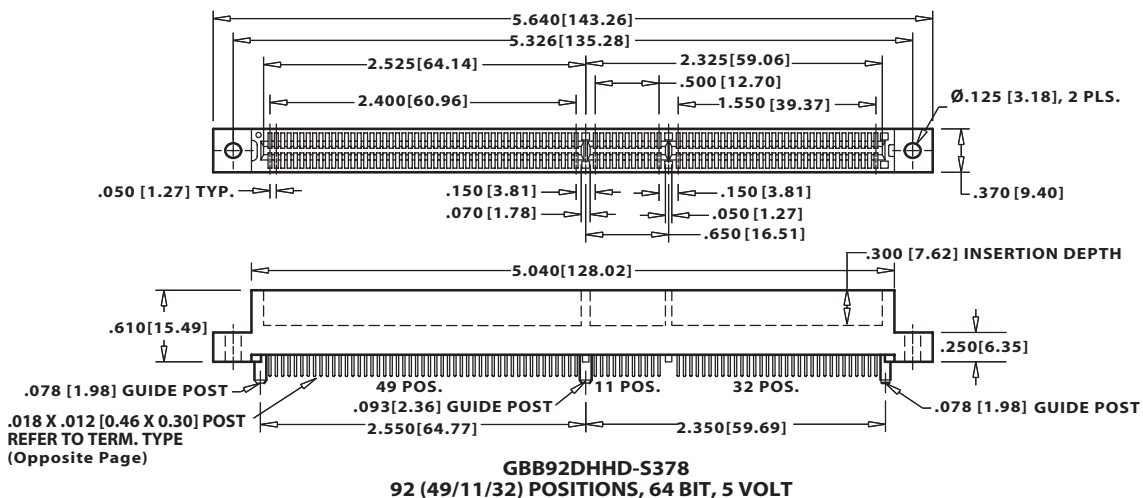
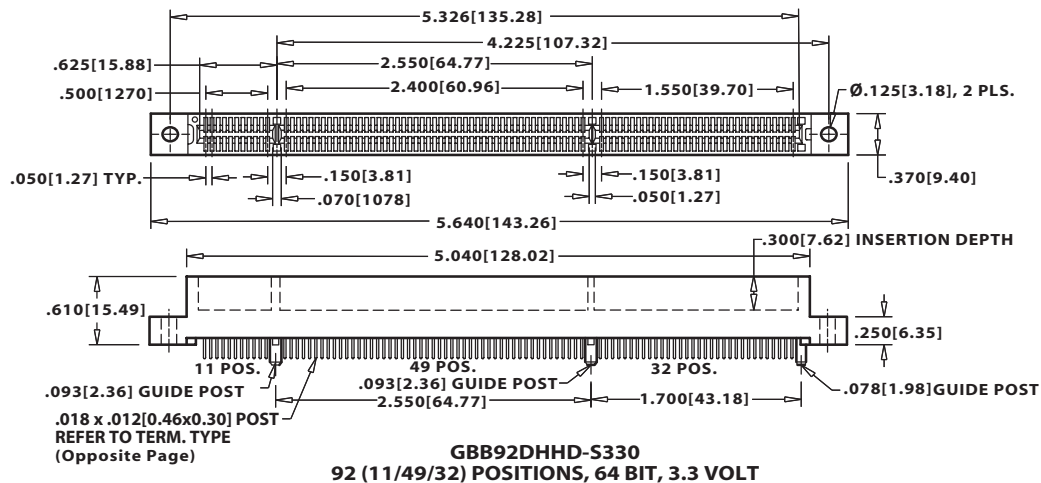
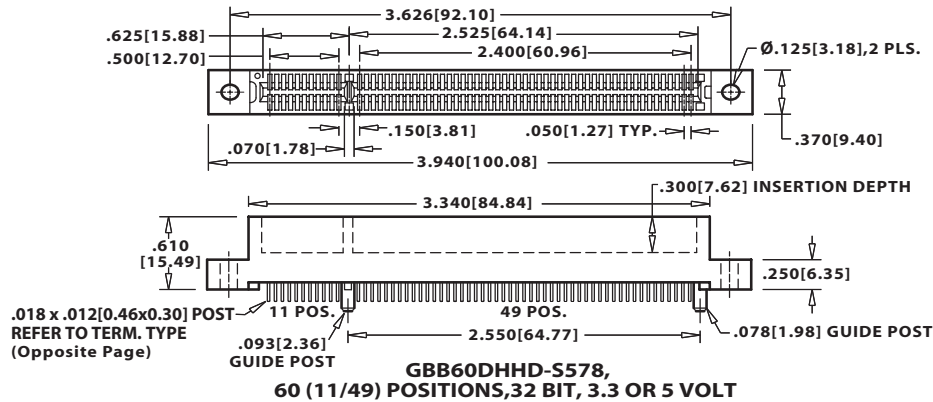
Industry Standard Part

SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

READOUT**DUAL (D)****DIMENSIONS**

Dimensions in [] are in millimeters, all others are in inches.





**.050" [1.27mm] Contact Centers, .610" Insulator Height
[PCI] Dip Solder/Card Extender/SMT**

Industry Standard Part

PART NUMBER CODING

MATERIALS (Insulator/Contact)	G	B	B	60	D	HH	D - S578
G = PA9T/Phosphor Bronze							
R = PPS/Phosphor Bronze							
J = PA9T/Beryllium Copper							
A = PPS/Beryllium Copper							
(Consult Factory for Other Materials)							
CONTACT FINISH - RoHS Compliant							
All platings are Lead Free and have .000050" Nickel underplate							
Contact Surface							
B = .000010" Gold							
C = .000030" Gold							
Termination							
.000100" Pure Tin, Matte							
.000100" Pure Tin, Matte							
CONTACT CENTERS							
B = .050" [1.27mm]							
NUMBER OF CONTACT POSITIONS							
60 = 11/49 (32 Bit, 3.3 or 5 Volt)							
92 = 11/49/32 (64 Bit, 3.3 Volt)							
or 92 = 49/11/32 (64 Bit, 5 Volt)							
READOUT							
D = Dual							

MODIFICATION (CONSULT FACTORY)

PCI WITH GUIDE POSTS

*-S578 = 60 (11/49)	Positions(32 Bit, 3.3 or 5 Volt)
-S330 = 92 (11/49/32)	Positions(64 Bit, 3.3 Volt)
-S378 = 92 (49/11/32)	Positions(64 Bit, 5 Volt)

PCI WITHOUT GUIDE POSTS

*-S621 = 60 (11/49)	Positions(32 Bit, 3.3 or 5 Volt)
-S329 = 92 (11/49/32)	Positions(64 Bit, 3.3 Volt)
-S250 = 92 (49/11/32)	Positions(64 Bit, 5 Volt)

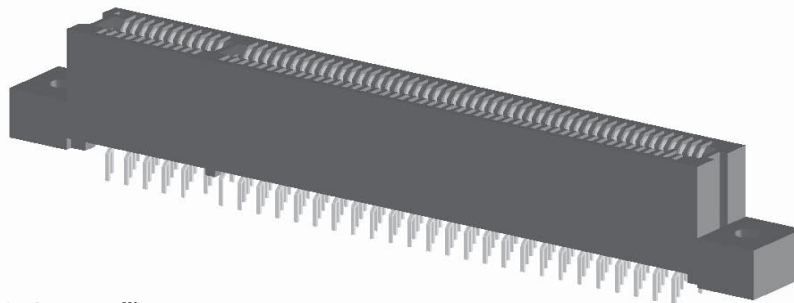
* Turn connector or board 180° to switch from 3.3 to 5 volt

MOUNTING STYLE

D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
Q = Straddle Mount (Card Extender Only)
R = Metal Boardlocks

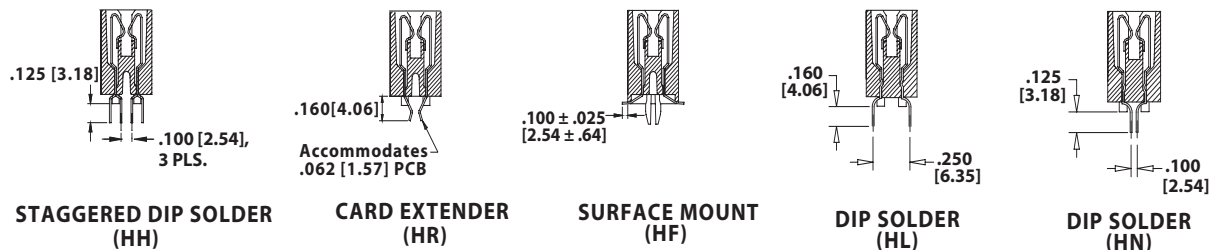
TERMINATION TYPE

HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

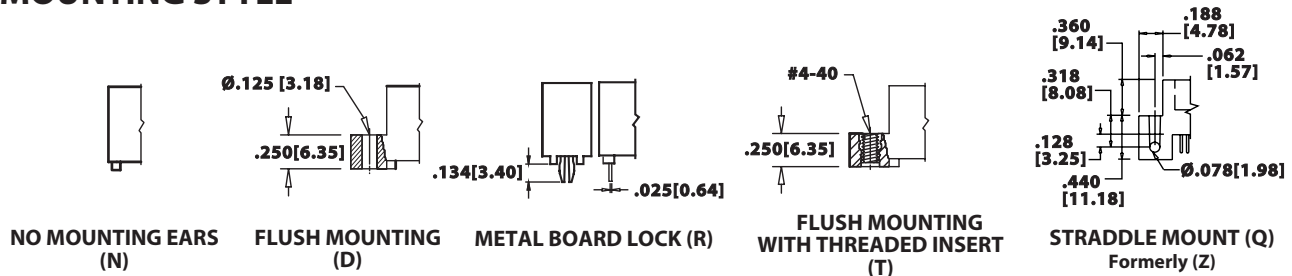


FOR PC BOARD LAYOUTS REFER TO www.sullinscorp.com

TERMINATION TYPE



MOUNTING STYLE



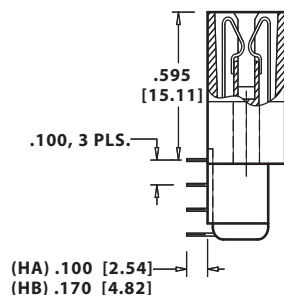


**.050" [1.27mm] Contact Centers, .915" Insulator Height
[PCI] Right Angle**

Industry Standard Part

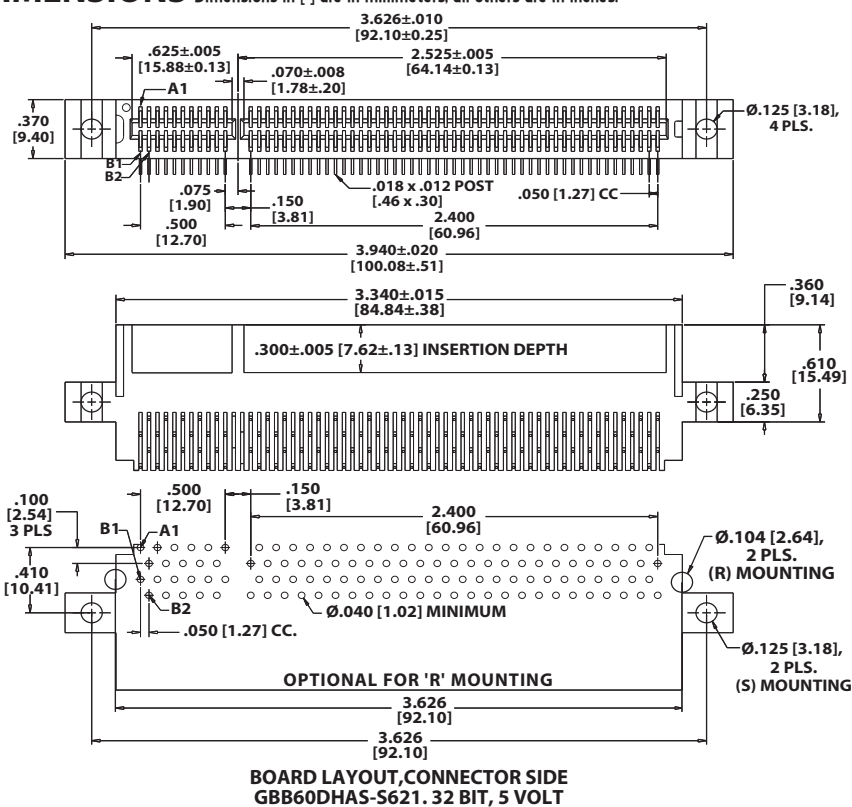
SPECIFICATIONS

- Accommodates $.062" \pm .008"$
[1.57 $\pm$.20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle
hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force
minimum

TERMINATION TYPE

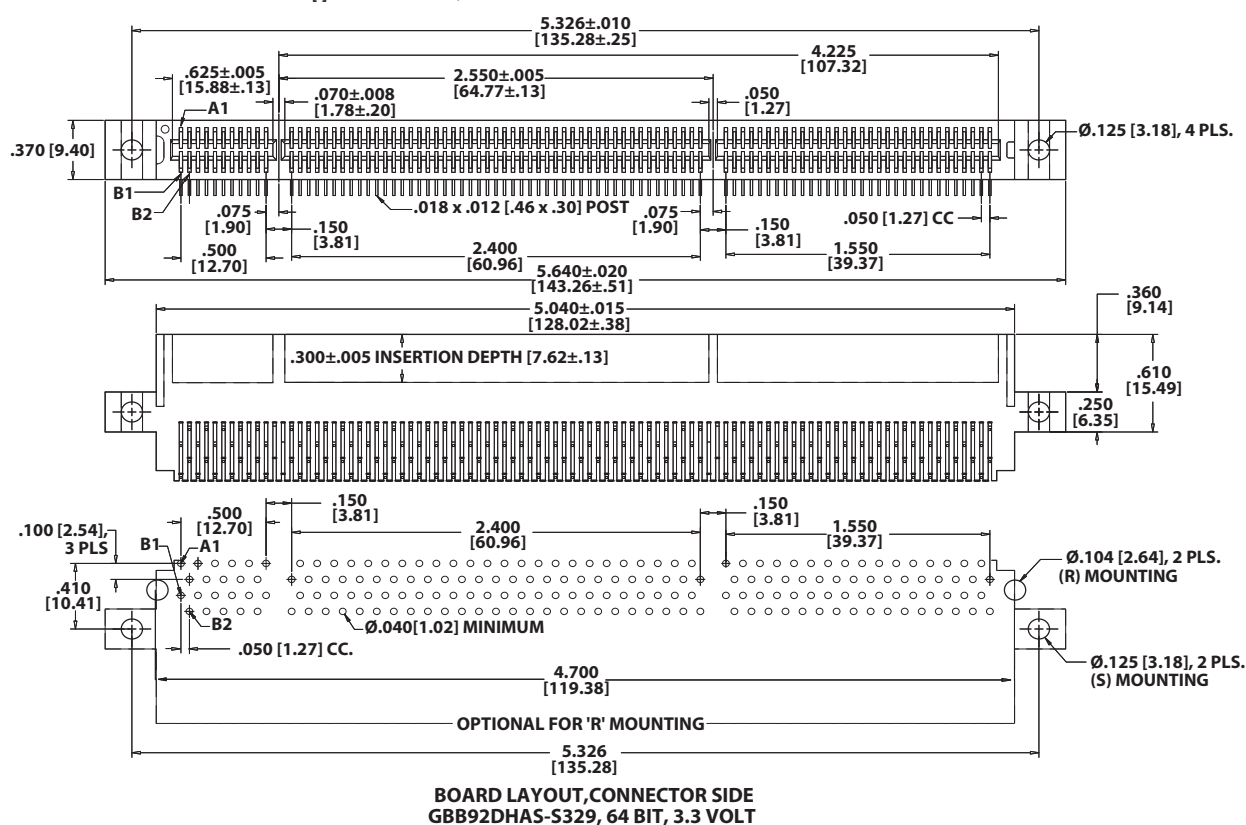
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



**.050" [1.27mm] Contact Centers, .915" Insulator Height
[PCI] Right Angle**

Industry Standard Part

PART NUMBER CODING

G B B 60 D HA D - S793

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

NUMBER OF CONTACT POSITIONS

60 = 11/49 (32 Bit, 3.3 or 5 Volt)
92 = 11/49/32 (64 Bit, 3.3 Volt)
or 92 = 49/11/32 (64 Bit, 5 Volt)

MODIFICATION (CONSULT FACTORY)

-S793 = 60(49/11) Reverse Bend (32 Bit, 3.3 Volt)
-S621 = 60(11/49) Positions (32 Bit, 5 Volt)
-S329 = 92(11/49/32) Positions (64 Bit, 3.3 Volt)
-S250 = 92(49/11/32) Positions (64 Bit, 5 Volt)

MOUNTING STYLE

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

TERMINATION TYPE (Opposite Page)

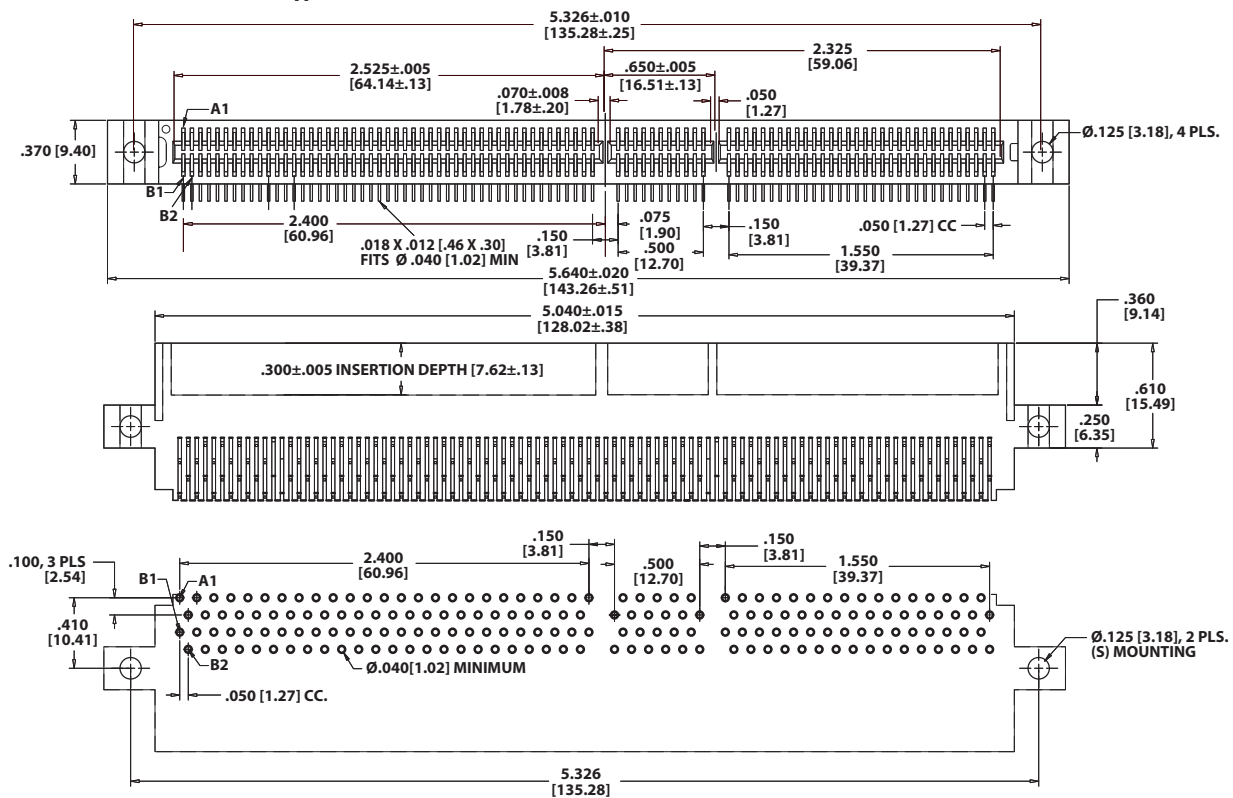
HA = .100" [2.54mm] Staggered Dip Solder
HB = .170" [4.32mm] Staggered Dip Solder

READOUT

D = Dual

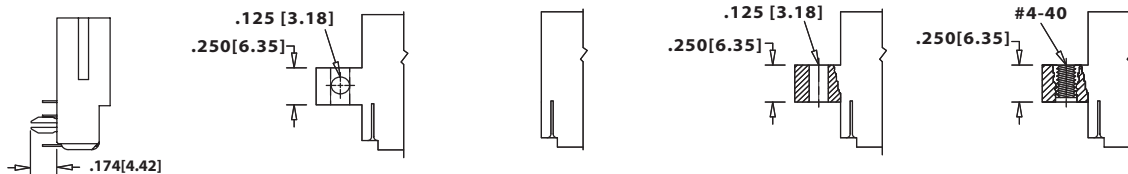
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



**BOARD LAYOUT, CONNECTOR SIDE
GBB92DHAS-S250, 64 BIT, 5 VOLT**

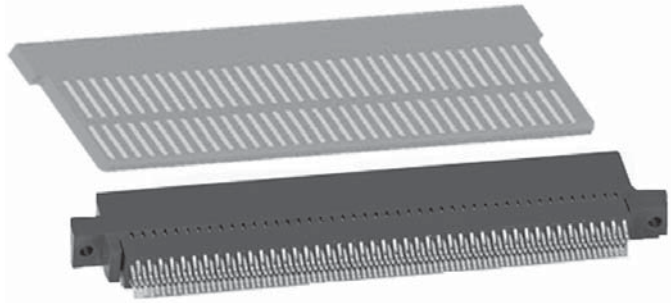
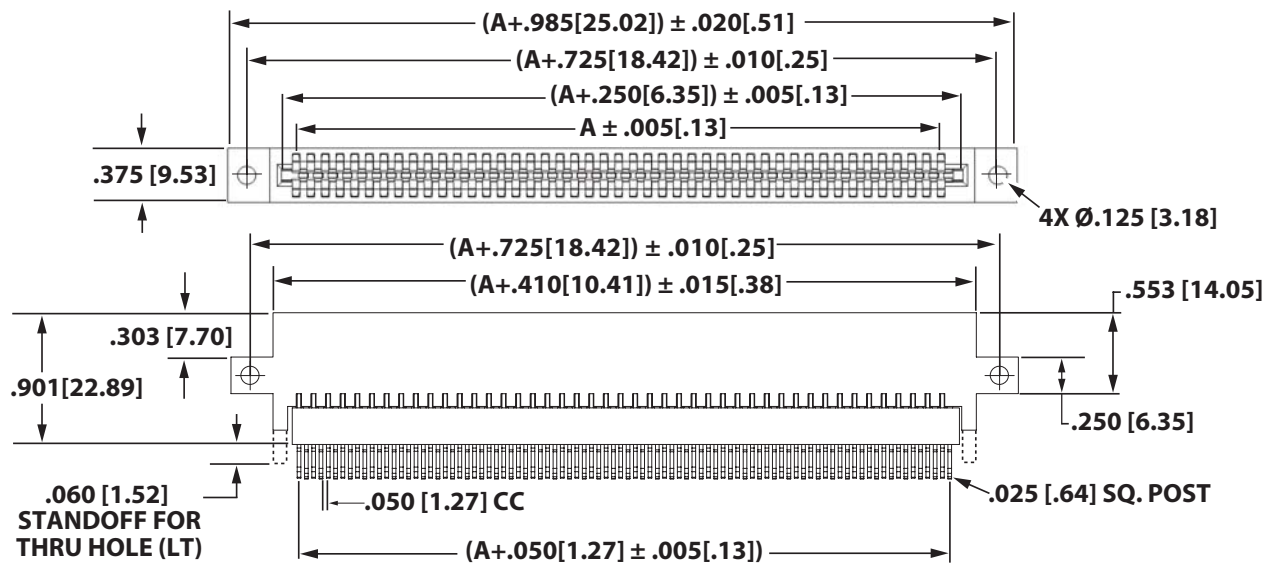
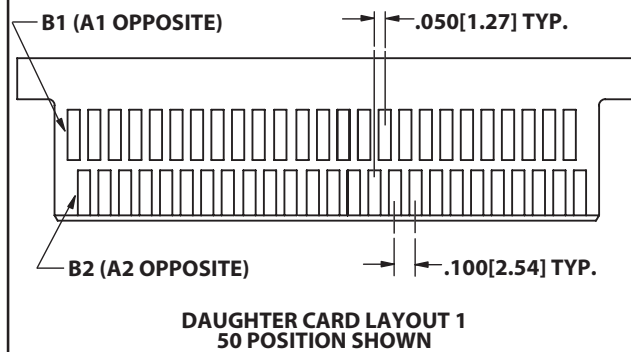
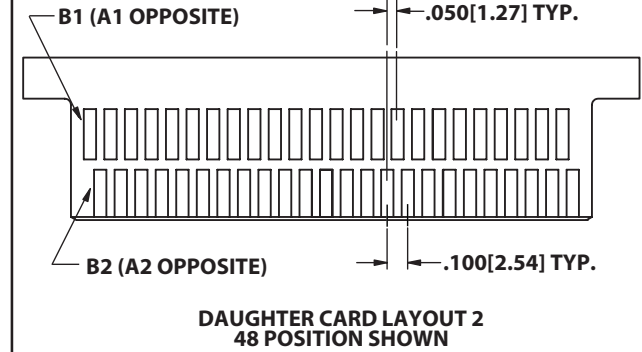
MOUNTING STYLE



BOARD LOCK (R) SIDE MOUNTING (S) NO MOUNTING EARS (N) FLUSH MOUNTING (D) THREADED INSERT (T)

**Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers**
High Density, Card Extender, Dip Solder**SPECIFICATIONS**

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings

**HIGH DENSITY HIGH TEMPERATURE HIGH CYCLE HIGH RELIABILITY****DIMENSIONS****DAUGHTER CARD LAYOUT (1)****DAUGHTER CARD LAYOUT (2)**

Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers
High Density, Card Extender, Dip Solder

PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
J = PA9T/Beryllium Copper
Operating Temperature: 150°C
A = PPS and PA9T/Beryllium Copper
Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

- B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- B = .050" [1.27mm]

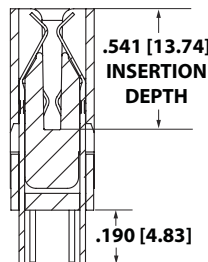
MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

Positions	Dimension A (see opposite page)			Daughter Card Layout
	No. of Contacts	Inches	[MM]	
06	12	0.200	5.08	1
08	16	0.300	7.62	2
10	20	0.400	10.16	1
12	24	0.500	12.70	2
14	28	0.600	15.24	1
16	32	0.700	17.78	2
18	36	0.800	20.32	1
20	40	0.900	22.86	2
22	44	1.000	25.40	1
24	48	1.100	27.94	2
26	52	1.200	30.48	1
28	56	1.300	33.02	2
30	60	1.400	35.56	1
32	64	1.500	38.10	2
34	68	1.600	40.64	1
36	72	1.700	43.18	2
38	76	1.800	45.72	1
40	80	1.900	48.26	2
42	84	2.000	50.80	1
44	88	2.100	53.34	2
46	92	2.200	55.88	1
48	96	2.300	58.42	2
50	100	2.400	60.96	1
52	104	2.500	63.50	2
54	108	2.600	66.04	1
56	112	2.700	68.58	2
58	116	2.800	71.12	1
60	120	2.900	73.66	2
62	124	3.000	76.20	1
64	128	3.100	78.74	2
66	132	3.200	81.28	1
68	136	3.300	83.82	2
70	140	3.400	86.36	1
72	144	3.500	88.90	2
74	148	3.600	91.44	1
76	152	3.700	93.98	2
78	156	3.800	96.52	1
80	160	3.900	99.06	2
82	164	4.000	101.60	1
84	168	4.100	104.14	2
86	172	4.200	106.68	1
88	176	4.300	109.22	2
90	180	4.400	111.76	1

TERMINATION

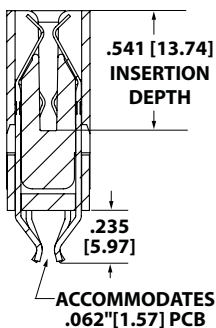
DIP SOLDER

LT



CARD EXTENDER

LR



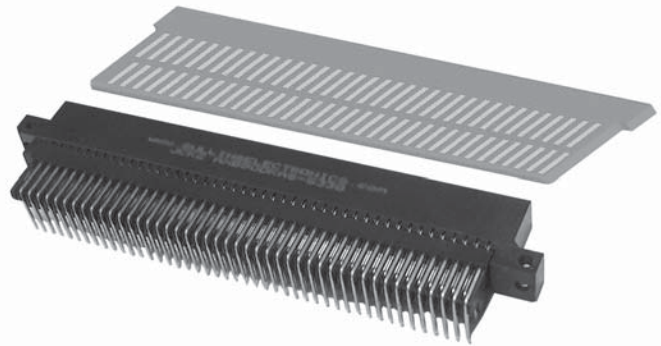
MOUNTING STYLE

H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	

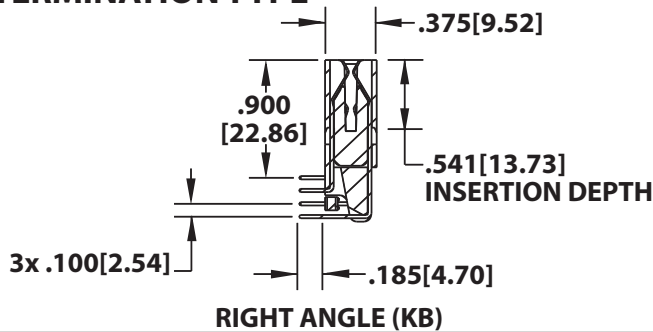


SPECIFICATIONS

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



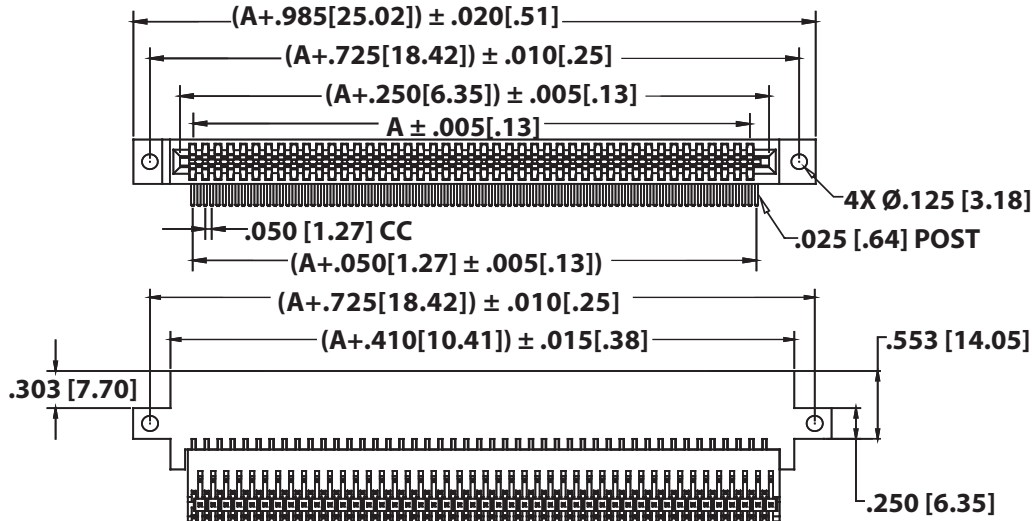
TERMINATION TYPE



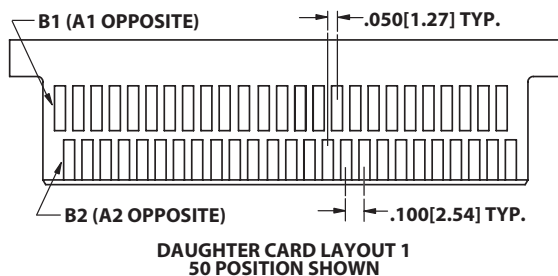
HIGH DENSITY
HIGH TEMPERATURE
HIGH CYCLE
HIGH RELIABILITY

DIMENSIONS

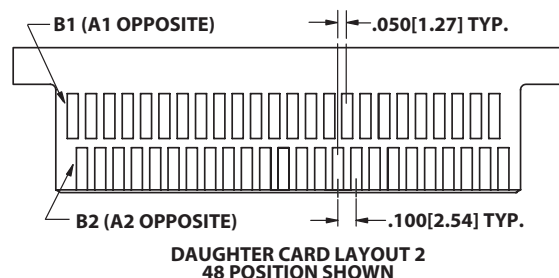
Dimensions in [] are in millimeters, all others are in inches.



DAUGHTER CARD LAYOUT (1)



DAUGHTER CARD LAYOUT (2)





PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
- R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
- J = PA9T/Beryllium Copper
Operating Temperature: 150°C
- A = PPS and PA9T/Beryllium Copper
Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

- B = .000010" Gold .000100" Pure Tin, Matte
- C = .000030" Gold .000100" Pure Tin, Matte
- Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- B = .050" [1.27mm]

A C B 10 D KB S - S1075

OMIT FOR STANDARD

S - S1075 = Staggered Ears with
Side Mounting Holes

A - S1076 = Staggered Ears with
#4-40 Threaded Inserts

Positions	Dimension A (see opposite page)			Daughter Card Layout
	No. of Contacts	Inches	[MM]	
06	12	0.200	5.08	1
08	16	0.300	7.62	2
10	20	0.400	10.16	1
12	24	0.500	12.70	2
14	28	0.600	15.24	1
16	32	0.700	17.78	2
18	36	0.800	20.32	1
20	40	0.900	22.86	2
22	44	1.000	25.40	1
24	48	1.100	27.94	2
26	52	1.200	30.48	1
28	56	1.300	33.02	2
30	60	1.400	35.56	1
32	64	1.500	38.10	2
34	68	1.600	40.64	1
36	72	1.700	43.18	2
38	76	1.800	45.72	1
40	80	1.900	48.26	2
42	84	2.000	50.80	1
44	88	2.100	53.34	2
46	92	2.200	55.88	1
48	96	2.300	58.42	2
50	100	2.400	60.96	1
52	104	2.500	63.50	2
54	108	2.600	66.04	1
56	112	2.700	68.58	2
58	116	2.800	71.12	1
60	120	2.900	73.66	2
62	124	3.000	76.20	1
64	128	3.100	78.74	2
66	132	3.200	81.28	1
68	136	3.300	83.82	2
70	140	3.400	86.36	1
72	144	3.500	88.90	2
74	148	3.600	91.44	1
76	152	3.700	93.98	2
78	156	3.800	96.52	1
80	160	3.900	99.06	2
82	164	4.000	101.60	1
84	168	4.100	104.14	2
86	172	4.200	106.68	1
88	176	4.300	109.22	2
90	180	4.400	111.76	1

MOUNTING STYLE		
H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	

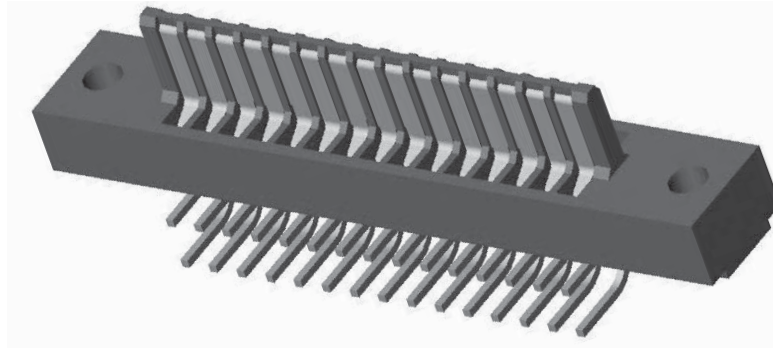
MODIFICATION CODE
(CONSULT FACTORY)
STAGGERED EARS WITH SIDE MOUNTING HOLES (S-S1075)
STAGGERED EARS WITH #4-40 THREADED INSERTS (A-S1076)



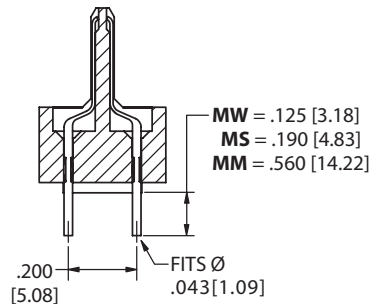
.100" [2.54mm] Contact Centers, .540" [13.72mm] Insulator Height, Male Edgecard, Dip Solder/Right Angle/Card Extender

SPECIFICATIONS

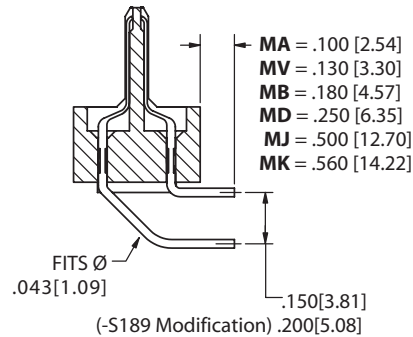
- Compatible with .431" or .610" Insulator Height Edgecards
- Mates in place of .062" [1.57] PCB
- PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for other Contact Centers



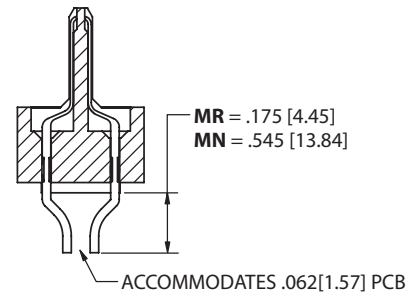
TERMINATION TYPE



**DIP SOLDER (MW, MS)
WIRE WRAP (MM)**

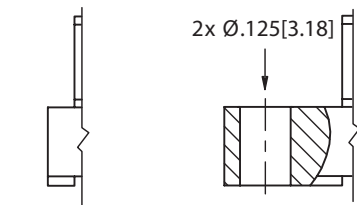


**RIGHT ANGLE
(MA, MV, MB, MD, MJ, MK)**

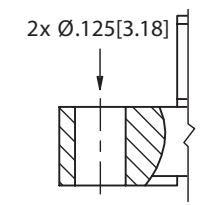


**CARD EXTENDER
(MR, MN)**

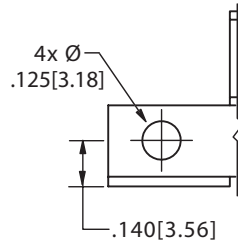
MOUNTING STYLE



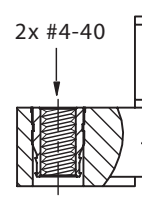
**NO
MOUNTING
(N)**



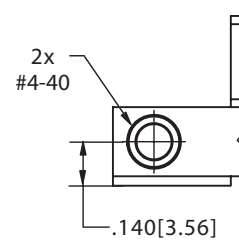
**FLUSH with
CLEARANCE HOLES
(D)**



**FLUSH, SIDE MOUNTING
with CLEARANCE HOLES
(Z)**



**FLUSH with
THREADED INSERT
(T)**



**FLUSH, with SIDE MOUNTED
THREADED INSERT
(V)**



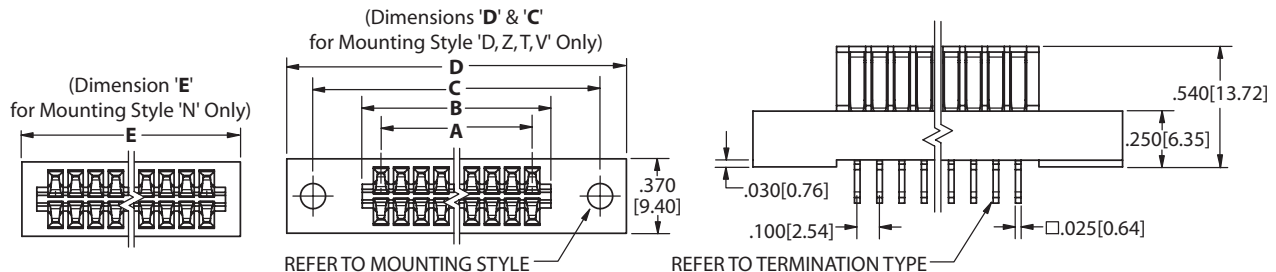
**.100" [2.54mm] Contact Centers, .540" [13.72mm] Insulator Height,
Male Edgecard, Dip Solder/Right Angle/Card Extender**

PART NUMBER CODING

MATERIALS (Insulator/Contact)	E	B	C	25	M	MW	D - Sxxx	MODIFICATIONS (Consult Factory) Omit for Standard -S189 = .200" Row Spacing (Right Angle Only)
E = PBT/Phosphor Bronze Operating Temperature: -65°C to 125°C Processing Temperature: 260°C for 10 seconds Max.								
G = PA9T/Phosphor Bronze Operating Temperature: -65°C to 150°C Processing Temperature: 260°C for 120 seconds Max.								
CONTACT FINISH - RoHS Compliant								
All platings are Lead Free and have .000050" Nickel underplate								
Contact Surface								
B = .000010" Gold								
C = .000030" Gold								
Y = .000030" Gold								
Termination								
.000100" Pure Tin, Matte								
.000100" Pure Tin, Matte								
.000005" Gold								
CONTACT CENTERS								
C = .100" [2.54mm]								
NUMBER OF CONTACT POSITIONS								
04 thru 60 Positions (Contact Factory for Positions Not Shown)								
								TERMINATION TYPE (Opposite Page)
								MW, MS = Dip Solder
								MM = Wire Wrap
								MA, MV, MB = Right Angle
								MD, MJ, MK = Right Angle
								MR, MN = Card Extender
								M = Male Edgecard

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]				
	A±.008	B±.008	C±.010	D±.020	E±.020 'N' Mtg. Only	A±0.20	B±0.20	C±0.25	D±0.51	E±0.51 'N' Mtg. Only
04/08	0.300	0.486	0.975	1.236	0.656	7.62	12.34	24.77	31.39	16.66
05/10	0.400	0.586	1.075	1.336	0.756	10.16	14.88	27.31	33.93	19.20
06/12	0.500	0.686	1.175	1.436	0.856	12.70	17.42	29.85	36.47	21.74
07/14	0.600	0.786	1.275	1.536	0.956	15.24	19.96	32.39	39.01	24.28
08/16	0.700	0.886	1.375	1.636	1.056	17.78	22.50	34.93	41.55	26.82
10/20	0.900	1.086	1.575	1.836	1.256	22.86	27.58	40.01	46.63	31.90
12/24	1.100	1.286	1.775	2.036	1.456	27.94	32.66	45.09	51.71	36.98
13/26	1.200	1.386	1.875	2.136	1.556	30.48	35.20	47.63	54.25	39.52
15/30	1.400	1.586	2.075	2.336	1.756	35.56	40.28	52.71	59.33	44.60
17/34	1.600	1.786	2.275	2.536	1.956	40.64	45.36	57.79	64.41	49.68
18/36	1.700	1.886	2.375	2.636	2.056	43.18	47.90	60.33	66.95	52.22
19/38	1.800	1.986	2.475	2.736	2.156	45.72	50.44	62.87	69.49	54.76
20/40	1.900	2.086	2.575	2.836	2.256	48.26	52.98	65.41	72.03	57.30
22/44	2.100	2.286	2.775	3.036	2.456	53.34	58.06	70.49	77.11	62.38
23/46	2.200	2.386	2.875	3.136	2.556	55.88	60.60	73.03	79.65	64.92
24/48	2.300	2.486	2.975	3.236	2.656	58.42	63.14	75.57	82.19	67.46
25/50	2.400	2.586	3.075	3.336	2.756	60.96	65.68	78.11	84.73	70.00
28/56	2.700	2.886	3.375	3.636	3.056	68.58	73.30	85.73	92.35	77.62
30/60	2.900	3.086	3.575	3.836	3.256	73.66	78.38	90.81	97.43	82.70
31/62	3.000	3.186	3.675	3.936	3.356	76.20	80.92	93.35	99.97	85.24
35/70	3.400	3.586	4.075	4.336	3.756	86.36	91.08	103.51	110.13	95.40
36/72	3.500	3.686	4.175	4.436	3.856	88.90	93.62	106.05	112.67	97.94
40/80	3.900	4.086	4.575	4.836	4.256	99.06	103.78	116.21	122.83	108.10
43/86	4.200	4.386	4.875	5.136	4.556	106.68	111.40	123.83	130.45	115.72
44/88	4.300	4.486	4.975	5.236	4.656	109.22	113.94	126.37	132.99	118.26
49/98	4.800	4.986	5.475	5.736	5.156	121.92	126.64	139.07	145.69	130.96
50/100	4.900	5.086	5.575	5.836	5.256	124.46	129.18	141.61	148.23	133.50
52/104	5.100	5.286	5.775	6.036	5.456	129.54	134.26	146.69	153.31	138.58
55/110	5.400	5.586	6.075	6.336	5.756	137.16	141.88	154.31	160.93	146.20
56/112*	5.500	5.686	6.175	6.436	5.856	139.70	144.42	156.85	163.47	148.74
57/114*	5.600	5.786	6.275	6.536	5.956	142.24	146.96	159.39	166.01	151.28
58/116*	5.700	5.886	6.375	6.636	6.056	144.78	149.50	161.93	168.55	153.82
59/118*	5.800	5.986	6.475	6.736	6.156	147.32	152.04	164.47	171.09	156.36
60/120*	5.900	6.086	6.575	6.836	6.256	149.86	154.58	167.01	173.63	158.90

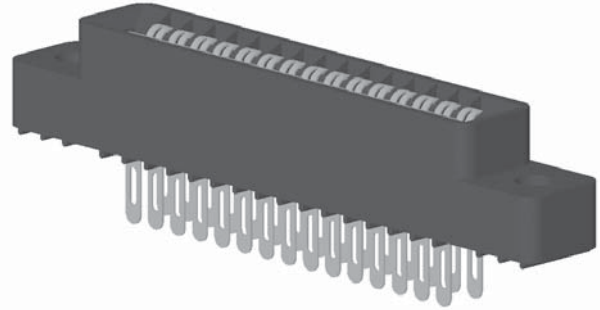
* Available in 'N' Mounting Only



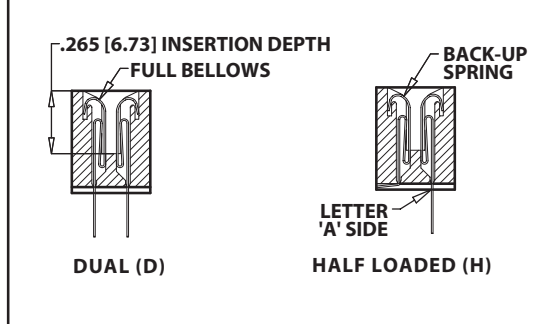
.100" [2.54mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PBT, PPS, PA9T or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

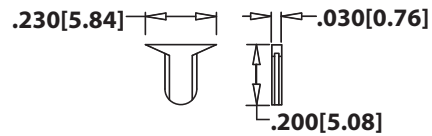


READOUT



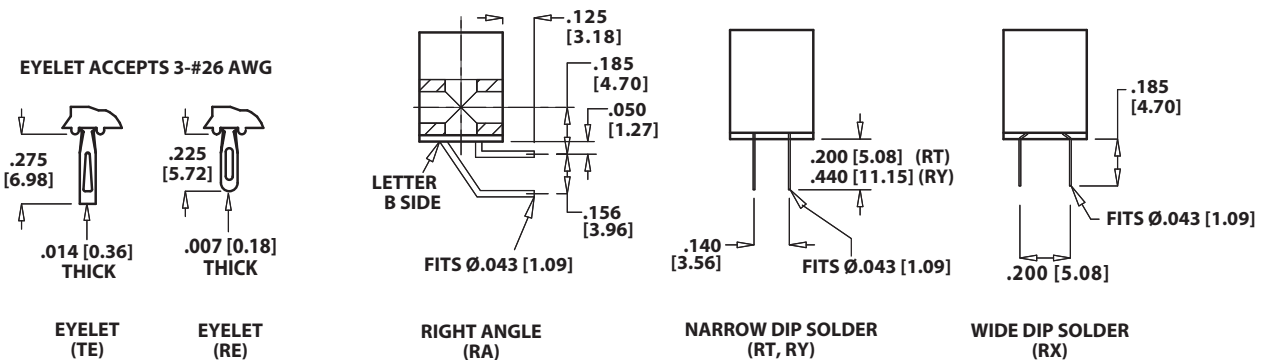
POLARIZING KEYS (For .062" Mating PCB Only)

PLA-K1
KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)

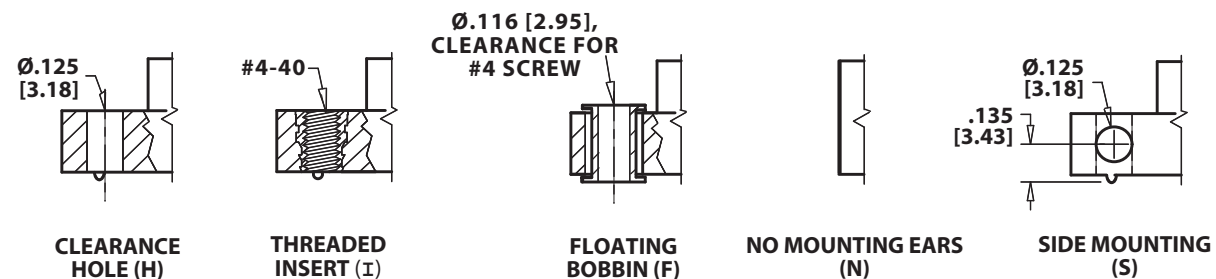


CONSULT FACTORY FOR MOLDED-IN KEY

TERMINATION TYPE



MOUNTING STYLE





.100" [2.54mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

PART NUMBER CODING

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
*Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

E B C 43 D RE H - Sxxx

MODIFICATIONS (Consult Factory)

- OMIT FOR STANDARD
- S13 = Card Extender Accepts .062" [1.57] PCB
(RE, RT, RY Terminations Only)
- S734 = .031" ± .008" [.79 ± .20] Thick Mating PCB

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder
- RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder
- RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder

READOUT (Opposite Page)

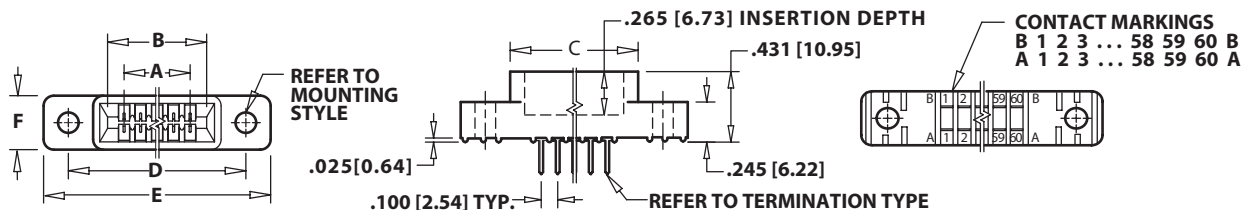
- D = Dual
- H = Half Loaded

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential: Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275	0.330	7.62	12.70	17.15	24.77	32.39	8.38
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375	0.400	86.36	91.44	95.89	103.51	111.13	10.16
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

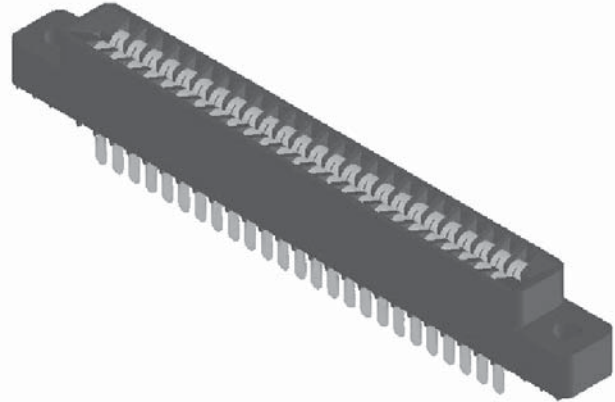
* Consult Factory For Availability



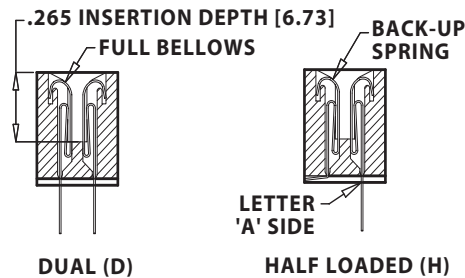
.100" [2.54mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .093"[2.36] Mating PCB

SPECIFICATIONS

- Accommodates .093" $\pm$.008" [2.36 $\pm$.20] PC board
- PBT, PPS, PA9T, or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



READOUT

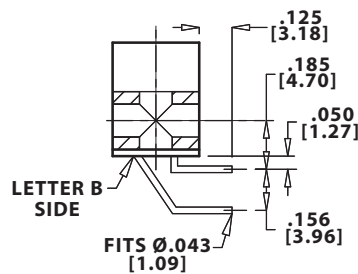


TERMINATION TYPE

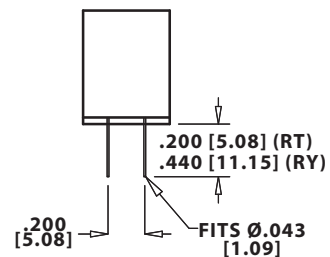
EYELET ACCEPTS 3-#26 AWG



EYELET
(RE)

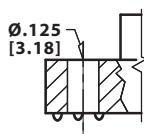


RIGHT ANGLE
(RA)

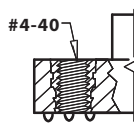


NARROW DIP SOLDER
(RT,RY)

MOUNTING STYLE



CLEARANCE
HOLE (H)



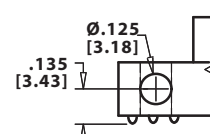
THREADED
INSERT (I)



FLOATING
BOBBIN (F)



NO MOUNTING EARS
(N)



SIDE MOUNTING
(S)



**.100" [2.54mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

PART NUMBER CODING

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
- Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- *Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface		Termination	
B =	.000010" Gold	.000100" Pure Tin, Matte	
C =	.000030" Gold	.000100" Pure Tin, Matte	
G =	.000010" Gold	.000005" Gold	
Y =	.000030" Gold	.000005" Gold	
Contact Surface		Overall Plating	
S =	.000010" Gold	.000010" Gold	
M =	.000030" Gold	.000010" Gold	
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte	

MODIFICATION (CONSULT FACTORY)

-S93 = .093" ± .008" [2.36 ± .20] Thick PCB

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

- RA = Right Angle
- RE = Eyelet
- RT = .200" [5.08mm] x .200" [5.08mm] Dip Solder
- RY = .200" [5.08mm] x .440" [11.18mm] Dip Solder

READOUT (Opposite Page)

- D = Dual
- H = Half Loaded

NUMBER OF CONTACT POSITIONS

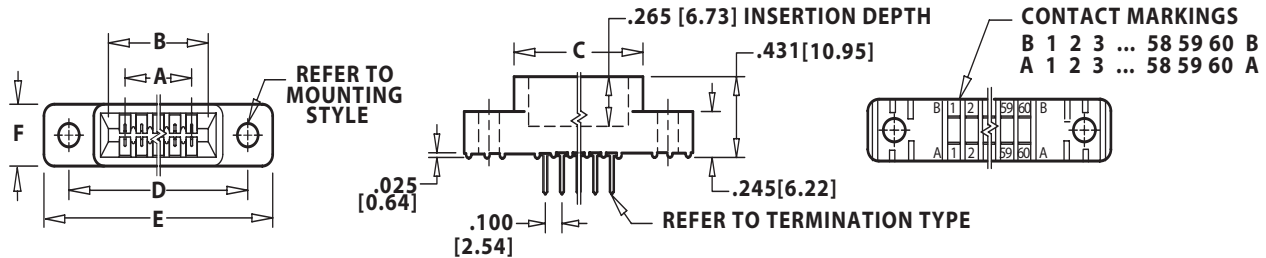
See Chart Below

CONTACT CENTERS

C = .100" [2.54mm]

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275	0.330	7.62	12.70	17.15	24.77	32.39	8.38
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375	0.400	86.36	91.44	95.89	103.51	111.13	10.16
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/125	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

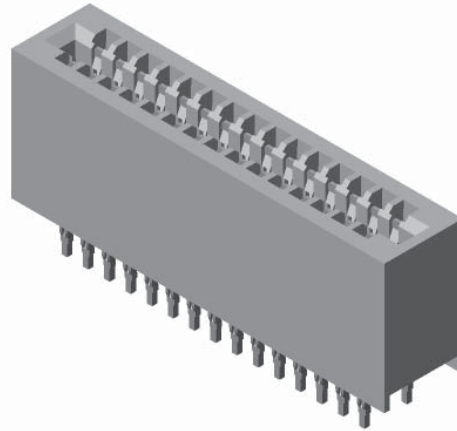
* Consult Factory For Availability



.100" [2.54mm] Contact Centers, .550" or .610" Profile Press Fit

SPECIFICATIONS

- Designed to meet specifications of Bellcore specification TR-TSY-00078.
- Flat rock installation eliminates the need for any special installation tool.
- Integrally molded scoops available to assist daughter card entry.
- Various plating options available per customer requirements.
- Various insulator options per customer requirements, including:
 - Open ended on one side
 - Open ended on both sides to accommodate end to end mounting
 - Molded in keys per customer requirements.



FEATURES

COMPLIANT SECTION INSERTION FORCE

40 lbs maximum per contact

COMPLIANT SECTION WITHDRAWAL FORCE

10 lbs minimum per contact

HOLE SIZE REQUIREMENTS

Drilled Hole Diameter: $.0453" \pm .0010"$ [1.15 $\pm$.03]

Plating: $.001" [.03]$ to $.003" [.08]$ Copper and $.0003" [.01]$ Minimum Tin

FINISHED HOLE DIAMETER

$.040" \pm .003"$ [1.02 $\pm$.08]

SUITABLE FOR .062" [1.57] DAUGHTER CARD

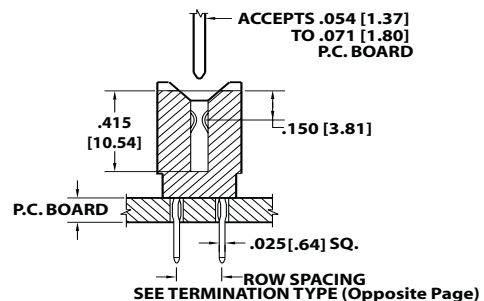
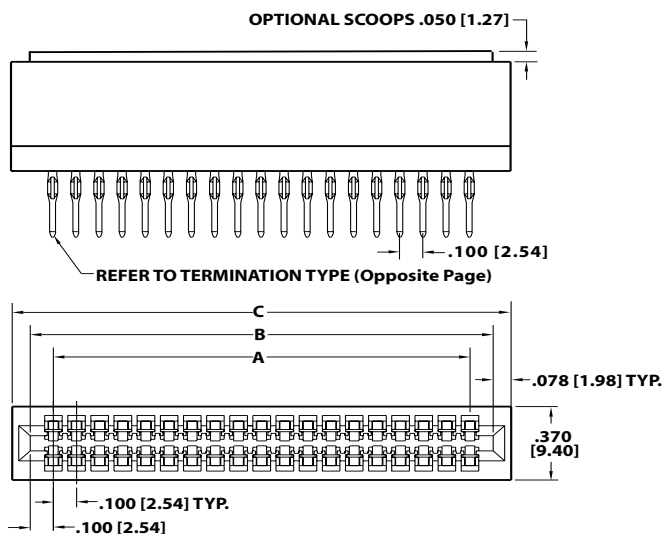
RECOMMENDED MOTHERBOARD THICKNESS

$.093"$ to $.125"$ [2.36 to 3.18]

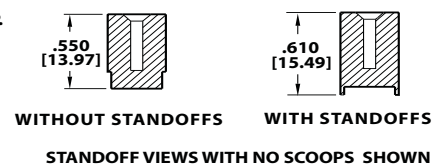
UL-CUL RECOGNIZED

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



-S1136 (WITH SCOOPS) SHOWN ABOVE



**.100" [2.54mm] Contact Centers, .550" or .610" Profile
Press Fit**



PART NUMBER CODING

E C C 43 D JB N - Sxxx

MATERIALS (Insulator/Contact)
E = PBT/Phosphor Bronze

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS
C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS
See Chart Below

MODIFICATIONS (Consult Factory)
OMIT FOR STANDARD
Special Number assigned for specials such as:
- Scoops (-S1136)
- Other Card Slot Depths
- Slim Line Body (.315" [8.00mm])

MOUNTING STYLE
N = No Mounting
B = Open Card Slot

TERMINATION TYPE

	Standoffs	Row Spacing	Tail Length
JB =	No	.200" [5.08mm]	.190" [4.83mm]
JC =	No	.200" [5.08mm]	.625" [15.88mm]
JW =	Yes	.200" [5.08mm]	.190" [4.83mm]
JX =	Yes	.200" [5.08mm]	.565" [14.35mm]
JF =	No	.100" [2.54mm]	.190" [4.83mm]
JG =	No	.100" [2.54mm]	.625" [15.88mm]
JY =	Yes	.100" [2.54mm]	.190" [4.83mm]
JZ =	Yes	.100" [2.54mm]	.565" [14.35mm]

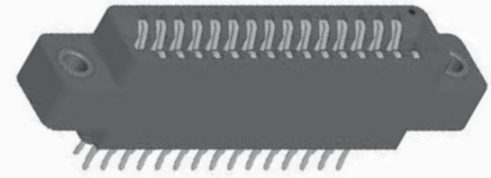
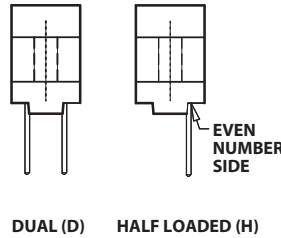
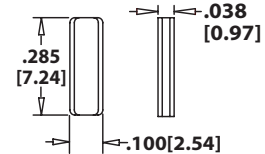
READOUT
D = Dual
H = Half Loaded

POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
05/10	0.400	10.16	0.600	15.24	0.756	19.20
06/12	0.500	12.70	0.700	17.78	0.856	21.74
07/14	0.600	15.24	0.800	20.32	0.956	24.28
08/16	0.700	17.78	0.900	22.86	1.056	26.82
09/18	0.800	20.32	1.000	25.40	1.156	29.36
10/20	0.900	22.86	1.100	27.94	1.256	31.90
11/22	1.000	25.40	1.200	30.48	1.356	34.44
12/24	1.100	27.94	1.300	33.02	1.456	36.98
13/26	1.200	30.48	1.400	35.56	1.556	39.52
14/28	1.300	33.02	1.500	38.10	1.656	42.06
15/30	1.400	35.56	1.600	40.64	1.756	44.60
16/32	1.500	38.10	1.700	43.18	1.856	47.14
17/34	1.600	40.64	1.800	45.72	1.956	49.68
18/36	1.700	43.18	1.900	48.26	2.056	52.22
19/38	1.800	45.72	2.000	50.80	2.156	54.76
20/40	1.900	48.26	2.100	53.34	2.256	57.30
21/42	2.000	50.80	2.200	55.88	2.356	59.84
22/44	2.100	53.34	2.300	58.42	2.456	62.38
23/46	2.200	55.88	2.400	60.96	2.556	64.92
24/48	2.300	58.42	2.500	63.50	2.656	67.46
25/50	2.400	60.96	2.600	66.04	2.756	70.00
26/52	2.500	63.50	2.700	68.58	2.856	72.54
27/54	2.600	66.04	2.800	71.12	2.956	75.08
28/56	2.700	68.58	2.900	73.66	3.056	77.62
29/58	2.800	71.12	3.000	76.20	3.156	80.16
30/60	2.900	73.66	3.100	78.74	3.256	82.70
31/62	3.000	76.20	3.200	81.28	3.356	85.24
32/64	3.100	78.74	3.300	83.82	3.456	87.78

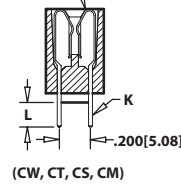
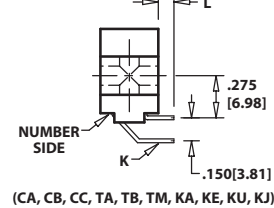
POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
33/66	3.200	81.28	3.400	86.36	3.556	90.32
34/68	3.300	83.82	3.500	88.90	3.656	92.86
35/70	3.400	86.36	3.600	91.44	3.756	95.40
36/72	3.500	88.90	3.700	93.98	3.856	97.94
37/74	3.600	91.44	3.800	96.52	3.956	100.48
38/76	3.700	93.98	3.900	99.06	4.056	103.02
39/78	3.800	96.52	4.000	101.60	4.156	105.56
40/80	3.900	99.06	4.100	104.14	4.256	108.10
41/82	4.000	101.60	4.200	106.68	4.356	110.64
42/84	4.100	104.14	4.300	109.22	4.456	113.18
43/86	4.200	106.68	4.400	111.76	4.556	115.72
44/88	4.300	109.22	4.500	114.30	4.656	118.26
45/90	4.400	111.76	4.600	116.84	4.756	120.80
46/92	4.500	114.30	4.700	119.38	4.856	123.34
47/94	4.600	116.84	4.800	121.92	4.956	125.88
48/96	4.700	119.38	4.900	124.46	5.056	128.42
49/98	4.800	121.92	5.000	127.00	5.156	130.96
50/100	4.900	124.46	5.100	129.54	5.256	133.50
51/102	5.000	127.00	5.200	132.08	5.356	136.04
52/104	5.100	129.54	5.300	134.62	5.456	138.58
53/106	5.200	132.08	5.400	137.16	5.556	141.12
54/108	5.300	134.62	5.500	139.70	5.656	143.66
55/110	5.400	137.16	5.600	142.24	5.756	146.20
56/112	5.500	139.70	5.700	144.78	5.856	148.74
57/114	5.600	142.24	5.800	147.32	5.956	151.28
58/116	5.700	144.78	5.900	149.86	6.056	153.82
59/118	5.800	147.32	6.000	152.40	6.156	156.36
60/120	5.900	149.86	6.100	154.94	6.256	158.90

**.100" [2.54mm] Contact Centers, .610" Insulator Height**
Dip Solder/Wire Wrap/Right Angle/Card Extender**SPECIFICATIONS**

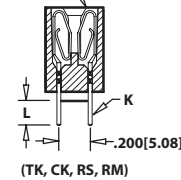
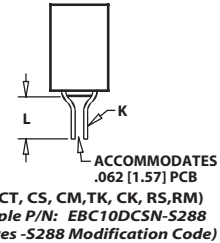
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board (For .093" $\pm$.008" [2.36 $\pm$.20] PCB see page 40-41, 42-43; for .125" $\pm$.008" [3.18 $\pm$.20] PCB see page 40-41)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

**READOUT****POLARIZING KEY****PLC-K1****KEY IN BETWEEN CONTACTS**
(ORDER SEPARATELY)**TERMINATION TYPE**

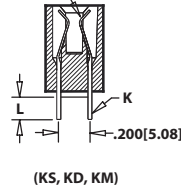
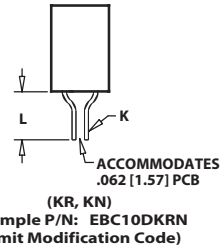
HAIRPIN BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CW	DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CT	DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CS	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
CA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

HAIRPIN BELLOWS**RIGHT ANGLE**

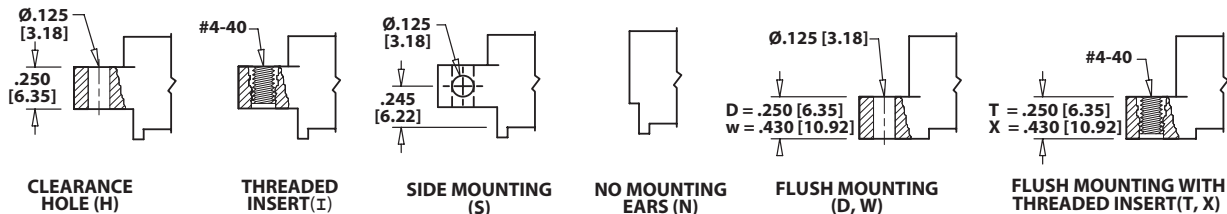
LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
TK,CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

LOOP BELLOWS**HAIRPIN or LOOP CARD EXTENDER**

CANTILEVER	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
KS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
KD	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.043 [1.09]
KM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
*KA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
*KE	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
*KU	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
*KJ	RIGHT ANGLE	.025 [.64] SQUARE	.500 [12.70]	.043 [1.09]
*KR	CARD EXTENDER	.025 [.64] SQUARE	.235 [5.97]	N/A
*KN	CARD EXTENDER	.025 [.64] SQUARE	.605 [15.37]	N/A

CANTILEVER**CANTILEVER CARD EXTENDER**

* KA, KE, KJ, KR, KN have no standoffs, unless requested.

MOUNTING STYLE



.100" [2.54mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle/Card Extender

PART NUMBER CODING

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

READOUT (Opposite Page)

D = Dual
H = Half Loaded

E B C 70 D CM H - Sxxx

MODIFICATION CODE (Consult Factory)

OMIT FORT STANDARD

-S189 = .200" [5.08mm] Row to Row on Right Angle

-S288* = Card Extender Accepts .062" [1.57] PCB

* Not Required on KR or KN Terminations

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting
D,W = Flush Mounting
T,X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only

CS = .025" [.64mm] Square Dip Solder

CM = .025 [.64mm] Square Wire Wrap

CA, CB, CC = .025" [.64mm] Square Right Angle

CW, CT = .015" x .025" [.38 x .64] Dip Solder

Loop Bellows

RS = .025" [.64mm] Square Dip Solder

CK, TK = .026" [.66mm] Round Dip Solder

RM = .025" [.64mm] Square Wire Wrap

TA, TB, TM = .025" [.64mm] Square Right Angle

Cantilever Bellows - Available in Y, B, or C plating Only

Not Available with R or A Materials

KS, KD = .025" [.64mm] Square Dip Solder

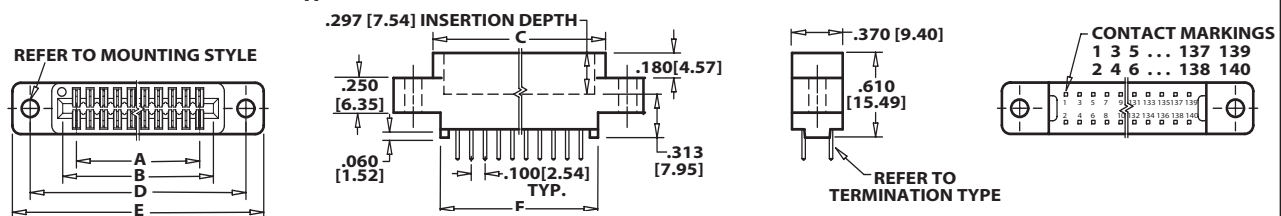
KM = .025 [.64mm] Square Wire Wrap

KA, KE, KU, KJ = .025" [.64mm] Square Right Angle

KR, KN = .025" [.64mm] Square Card Extender

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61
80/160*	7.900	8.100	8.260	8.575	8.835	8.150	200.66	205.74	209.80	217.81	224.41	207.01
90/180*	8.900	9.100	9.260	9.575	9.835	9.150	226.06	231.14	235.20	243.21	249.81	232.41
100/200*	9.900	10.100	10.260	10.575	10.835	10.150	251.46	256.54	260.60	268.61	275.21	257.81

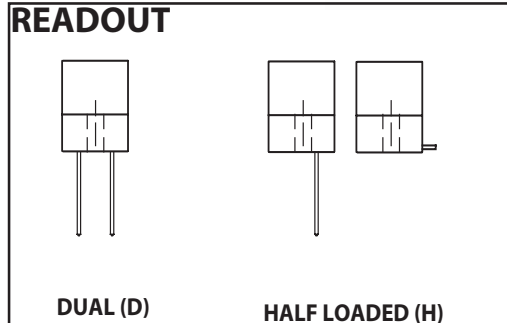
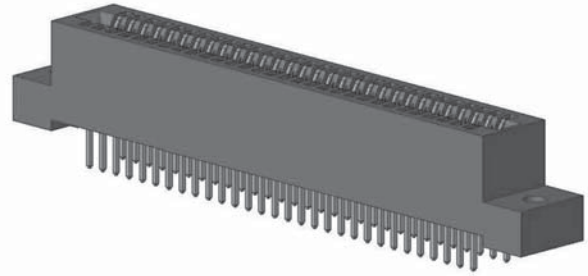
* Consult factory for availability.



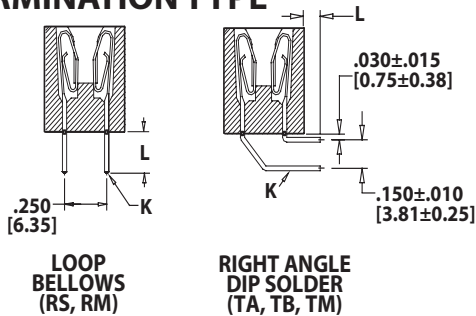
**.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/
Right Angle/Card Extender for .093"[2.36] or .125"[3.18] Mating PCB**

SPECIFICATIONS

- Accommodates .093" $\pm$.008" [2.36 $\pm$.20] or .125" $\pm$.008" [3.18 $\pm$.20] mating PC board (Consult factory for .031" $\pm$.008" [.79 $\pm$.20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

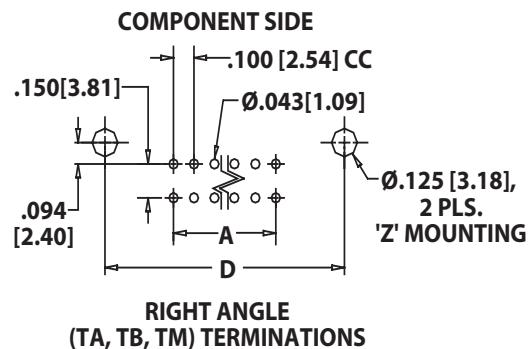
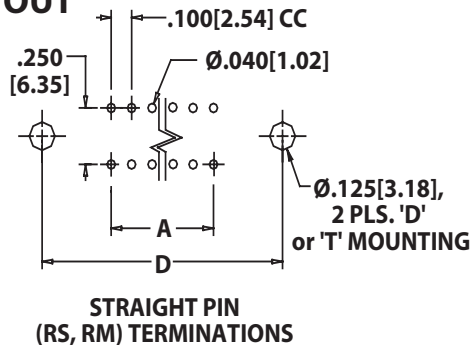


TERMINATION TYPE

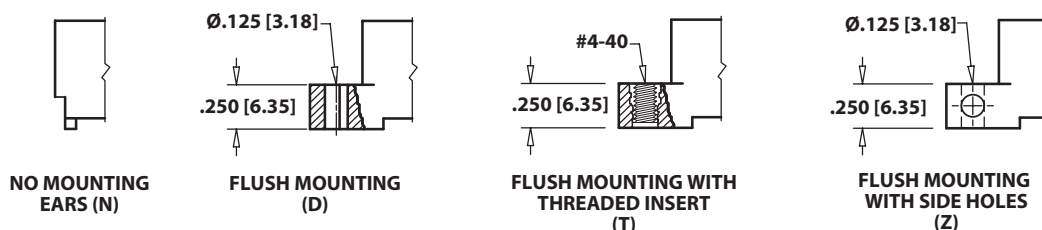


TERMINATION TYPE		POST CROSS SECTION (K)	POST LENGTH L $\pm$.025[.64]	FITS MIN. HOLE SIZE
RS	Dip Solder	.025[.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	Wire Wrap	.025[.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	Right Angle	.025[.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	Right Angle	.025[.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	Right Angle	.025[.64] SQUARE	.250 [6.35]	.043 [1.09]

PCB LAYOUT



MOUNTING STYLE





**.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/
Right Angle/Card Extender for .093"[2.36] or .125"[3.18] Mating PCB**

PART NUMBER CODING

MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

B = .000010" Gold
C = .000030" Gold
G = .000010" Gold
Y = .000030" Gold

Termination

.000100" Pure Tin, Matte
.000100" Pure Tin, Matte
.000005" Gold
.000005" Gold

Contact Surface

S = .000010" Gold
M = .000030" Gold
E = .000100" Pure Tin, Matte

Overall Plating

.000010" Gold
.000010" Gold
.000100" Pure Tin, Matte

E B C 70 D RM D - S273

MODIFICATION CODE (Consult Factory)

-S273 = FOR .093" ± .008" [2.36 ± .20]
THICK MATING PCB
-S664 = FOR .125" ± .008" [3.18 ± .20]
THICK MATING PCB

MOUNTING STYLE (Opposite Page)

N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Inserts
Z = Flush Mounting With Side Holes

TERMINATION TYPE (Opposite Page)

RS = .025" [0.64mm] Square Dip Solder
RM = .025" [0.64mm] Square Wire Wrap
TA, TB, TM = .025" [0.64mm] Square Right Angle

READOUT (Opposite Page)

D = Dual
H = Half Loaded

NUMBER OF CONTACT POSITIONS

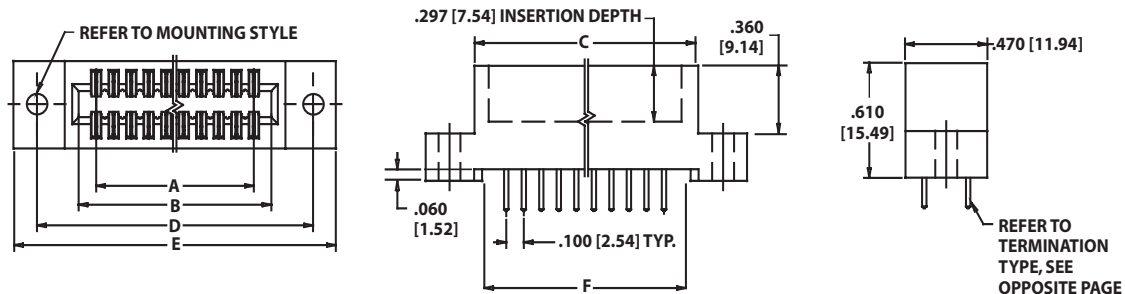
See Chart Below

CONTACT CENTERS

C = .100" [2.54mm]

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16*	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
15/30*	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34*	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40*	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48*	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50*	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56*	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62*	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80*	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86*	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88*	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130*	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61

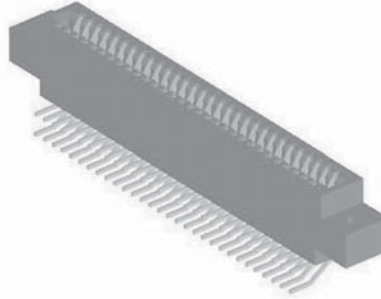
* Consult factory for availability.



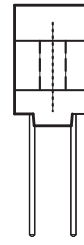
.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender

SPECIFICATIONS

- Accommodates .062" $\pm$.008 [1.57 $\pm$.20] or .093" $\pm$.008" [2.36 $\pm$.20] PC board
- PPS, PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

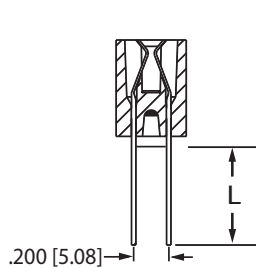


READOUT

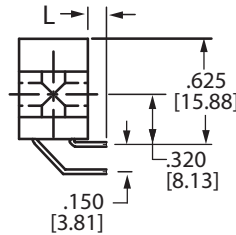


DUAL (D)

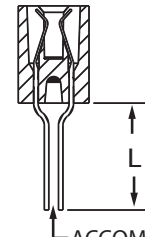
TERMINATION TYPE



DIP SOLDER/WIRE WRAP
(KS, KD, KM)



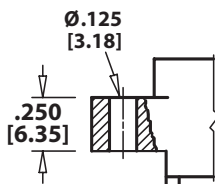
RIGHT ANGLE
(KA, KE, KU, KJ)



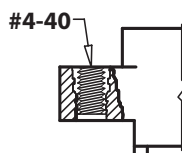
CARD EXTENDER
(KR, KN)

TERMINATION	TERMINATION TYPE	POST LENGTH L $\pm$.025 [.64]	FITS MIN. HOLE SIZE	STANDOFF
KD	DIP SOLDER	.160 [4.06]	.043 [1.09]	YES
KS	DIP SOLDER	.190 [4.83]	.040 [1.02]	YES
KM	WIRE WRAP	.560 [14.22]	.040 [1.02]	YES
KA	RIGHT ANGLE	.100 [2.54]	.043 [1.09]	NO
KE	RIGHT ANGLE	.180 [4.57]	.043 [1.09]	NO
KU	RIGHT ANGLE	.250 [6.35]	.043 [1.09]	NO
KJ	RIGHT ANGLE	.500 [12.70]	.043 [1.09]	NO
KR	CARD EXTENDER	.235 [5.97]	N/A	NO
KN	CARD EXTENDER	.605 [15.37]	N/A	NO

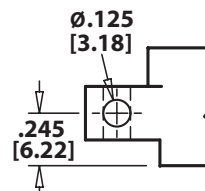
MOUNTING STYLE



CLEARANCE
HOLE (H)



THREADED
INSERT (I)



SIDE MOUNTING
(S)



NO MOUNTING
EARS (N)



.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender

PART NUMBER CODING

MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
Y = .000030" Gold	.000005" Gold

CONTACT CENTERS
C = .100" [2.54mm]

MODIFICATION CODE (Consult Factory)
-S1243 = For .062" ± .008 [1.57" ± .20] PCB
-S1191 = For .093" ± .008" [2.36 ± .20] PCB

MOUNTING STYLE (Opposite Page)
H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting

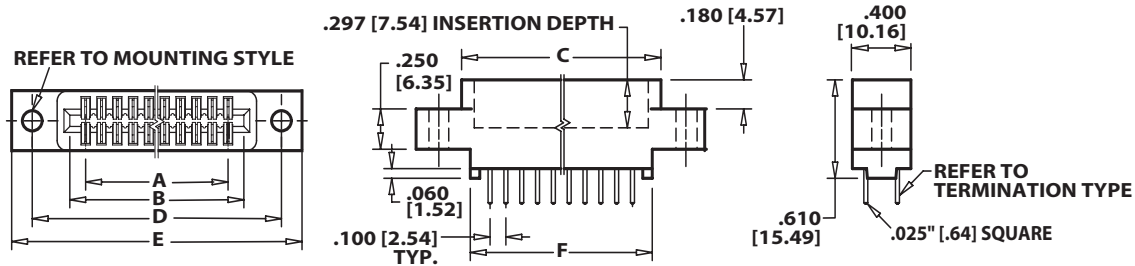
TERMINATION TYPE (Opposite Page)
KD, KS = .025" [.64] Square Dip Solder
KM = .025" [.64] Square Wire Wrap
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle
KN, KR = .025" [.64mm] Square Card Extender

READOUT (Opposite Page)
D = Dual

NUMBER OF CONTACT POSITIONS
See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

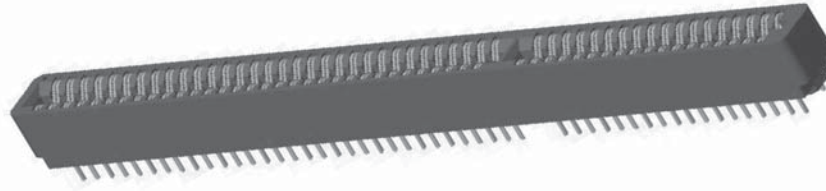


Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

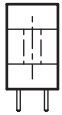
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.012	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.30	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.742	12.70	17.78	21.84	29.85	36.45	18.85
07/14	0.600	0.800	0.960	1.275	1.535	0.842	15.24	20.32	24.38	32.39	38.99	21.39
08/16	0.700	0.900	1.060	1.375	1.635	0.942	17.78	22.86	26.92	34.93	41.53	23.93
10/20	0.900	1.100	1.260	1.575	1.835	1.142	22.86	27.94	32.00	40.01	46.61	29.01
12/24	1.100	1.300	1.460	1.775	2.035	1.342	27.94	33.02	37.08	45.09	51.69	34.09
13/26	1.200	1.400	1.560	1.875	2.135	1.442	30.48	35.56	39.62	47.63	54.23	36.63
15/30	1.400	1.600	1.760	2.075	2.335	1.642	35.56	40.64	44.70	52.71	59.31	41.71
17/34	1.600	1.800	1.960	2.275	2.535	1.842	40.64	45.72	49.78	57.79	64.39	46.79
18/36	1.700	1.900	2.060	2.375	2.635	1.942	43.18	48.26	52.32	60.33	66.93	49.33
20/40	1.900	2.100	2.260	2.575	2.835	2.142	48.26	53.34	57.40	65.41	72.01	54.41
22/44	2.100	2.300	2.460	2.775	3.035	2.342	53.34	58.42	62.48	70.49	77.09	59.49
24/48	2.300	2.500	2.660	2.975	3.235	2.542	58.42	63.50	67.56	75.57	82.17	64.57
25/50	2.400	2.600	2.760	3.075	3.335	2.642	60.96	66.04	70.10	78.11	84.71	67.11
28/56	2.700	2.900	3.060	3.375	3.635	2.942	68.58	73.66	77.72	85.73	92.33	74.73
30/60	2.900	3.100	3.260	3.575	3.835	3.142	73.66	78.74	82.80	90.81	97.41	79.81
31/62	3.000	3.200	3.360	3.675	3.935	3.242	76.20	81.28	85.34	93.35	99.95	82.35
35/70	3.400	3.600	3.760	4.075	4.335	3.642	86.36	91.44	95.50	103.51	110.11	92.51
36/72	3.500	3.700	3.860	4.175	4.435	3.742	88.90	93.98	98.04	106.05	112.65	95.05
40/80	3.900	4.100	4.260	4.575	4.835	4.142	99.06	104.14	108.20	116.21	122.81	105.21
43/86	4.200	4.400	4.560	4.875	5.135	4.442	106.68	111.76	115.82	123.83	130.43	112.83
44/88	4.300	4.500	4.660	4.975	5.235	4.542	109.22	114.30	118.36	126.37	132.97	115.37
49/98	4.800	5.000	5.160	5.475	5.735	5.042	121.92	127.00	131.06	139.07	145.67	128.07
50/100	4.900	5.100	5.260	5.575	5.835	5.142	124.46	129.54	133.60	141.61	148.21	130.61
55/110	5.400	5.600	5.760	6.075	6.335	5.642	137.16	142.24	146.30	154.31	160.91	143.31
60/120	5.900	6.100	6.260	6.575	6.835	6.142	149.86	154.94	159.00	167.01	173.61	156.01
61/122	6.000	6.200	6.360	6.675	6.935	6.242	152.40	157.48	161.54	169.55	176.15	158.55
65/130	6.400	6.600	6.760	7.075	7.335	6.642	162.56	167.64	171.70	179.71	186.31	168.71
70/140	6.900	7.100	7.260	7.575	7.835	7.142	175.26	180.34	184.40	192.41	199.01	181.41



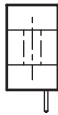
**.100" [2.54mm] Contact Centers, .610" Insulator Height,
[ISA] Dip Solder/Wire Wrap/Right Angle**



READOUT



DUAL (D)



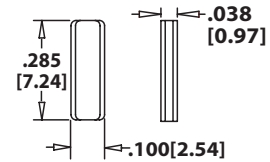
HALF LOADED (H)

SPECIFICATIONS

- Accommodates .062" $\pm$.008"
[1.57 $\pm$.20] PC board
- PBT or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

POLARIZING KEY

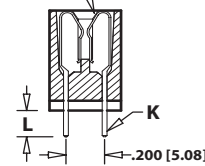
PLC-K1



**KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)**

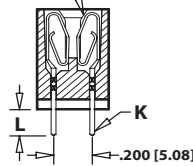
TERMINATION TYPE

HAIRPIN BELLOWS

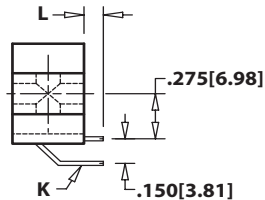


HAIRPIN BELLOWS
(CS,CM,CW,CT)

LOOP BELLOWS



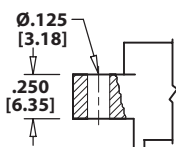
LOOP BELLOWS
(TK,RS,RM)



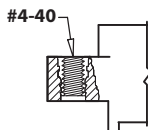
RIGHT ANGLE, DIP SOLDER
(CA,CB,CC,TA,TB,TM)
-S605 MODIFICATION

HAIRPIN BELLOWS	LOOP	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CM	TK, CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
	RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
	RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
	TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
CW		DIP SOLDER	.015 X .025 [.38 X .64]	.125 [3.18]	.035 [0.76]
CT		DIP SOLDER	.015 X .025 [.38 X .64]	.170 [4.32]	.035 [0.76]
CS		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]

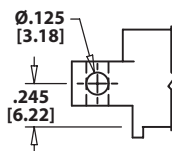
MOUNTING STYLE



CLEARANCE HOLE (H)



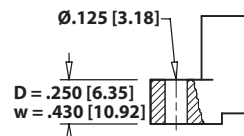
THREADED INSERT (I)



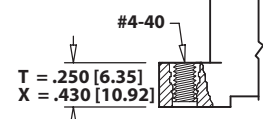
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH THREADED INSERT (T, X)



**.100" [2.54mm] Contact Centers, .610" Insulator Height,
[ISA] Dip Solder/Wire Wrap/Right Angle**

PART NUMBER CODING

E B C 49 D CW N - S420

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- G = PA9T/Phosphor Bronze
- H = PBT/Beryllium Copper
- J = PA9T/Beryllium Copper
- (Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

18, 31 or 49 (18/31)

READOUT (Opposite page)

- D = Dual
- H = Half Loaded

MODIFICATION CODE (Consult Factory)

ISA WITH RETENTION FEATURE

- S524 = 18 Positions
- S524 = 31 Positions
- S518 = 49 Positions (31/18)

ISA WITHOUT RETENTION FEATURE

- S371 = 18 Positions
- S371 = 31 Positions
- S420 = 49 Positions (31/18) Dip Solder or Wire Wrap
- S605 = 49 Positions (31/18) Right Angle

MOUNTING STYLE (Opposite Page)

- H = Clearance Holes
- I = Threaded Inserts
- S = Side Mounting
- N = No Mounting
- D,W = Flush Mounting
- T,X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows *

- CS = .025" [0.64mm] Square Dip Solder
- CM = .025" [0.64mm] Square Wire Wrap
- CA, CB, CC = .025" [0.64mm] Square Right Angle
- CW, CT = .015" [0.38mm] x .025" [0.64mm] Dip Solder

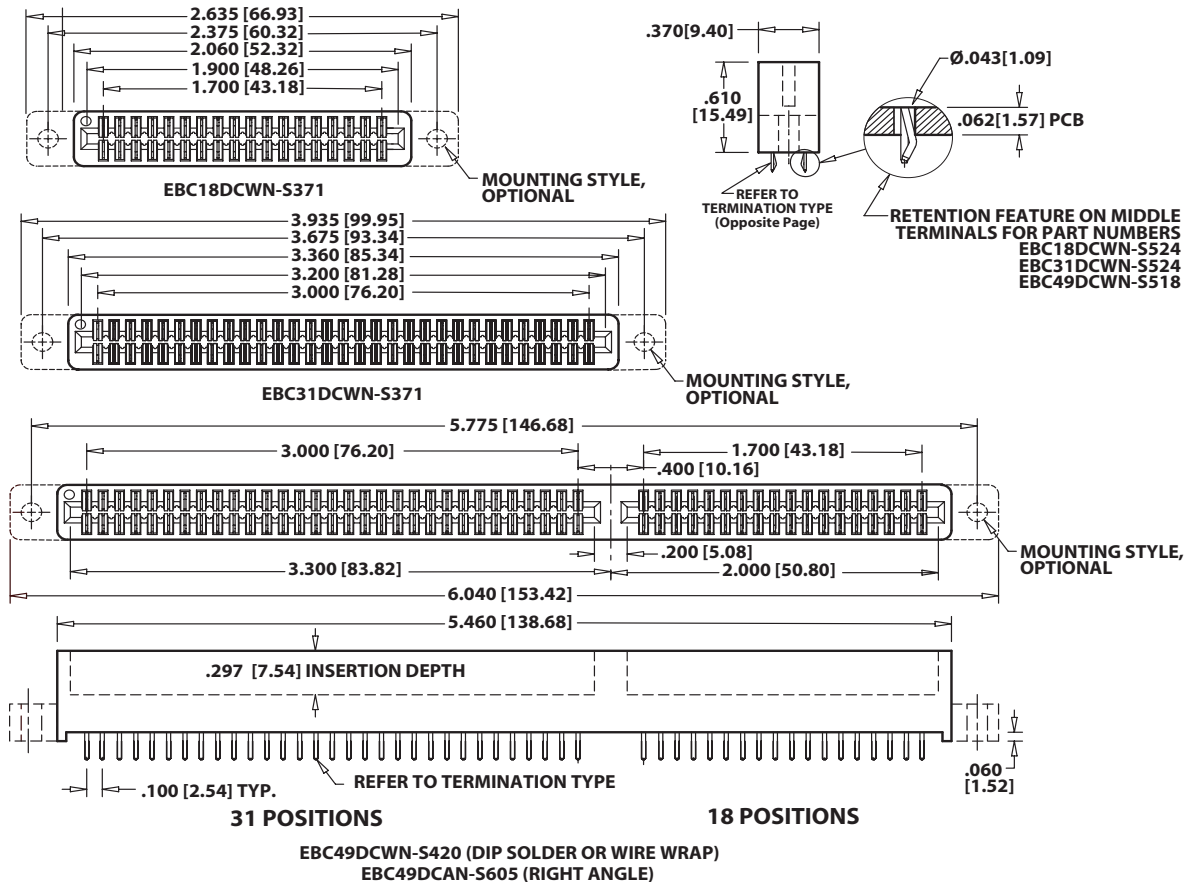
Loop Bellows

- RS = .025" [0.64mm] Square Dip Solder
- TK = .026" [0.66mm] Round Dip Solder
- RM = .025" [0.64mm] Square Wire Wrap
- TA, TB, TM = .025" [0.64mm] Square Right Angle

* Available in B or C Plating and Phosphor Bronze only

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

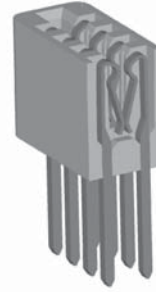




.100" [2.54mm] Contact Centers, .690" Insulator Height
Make Before Break Dip Solder/Card Extender/Right Angle

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 $\pm$.20] PC board
- PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



READOUT



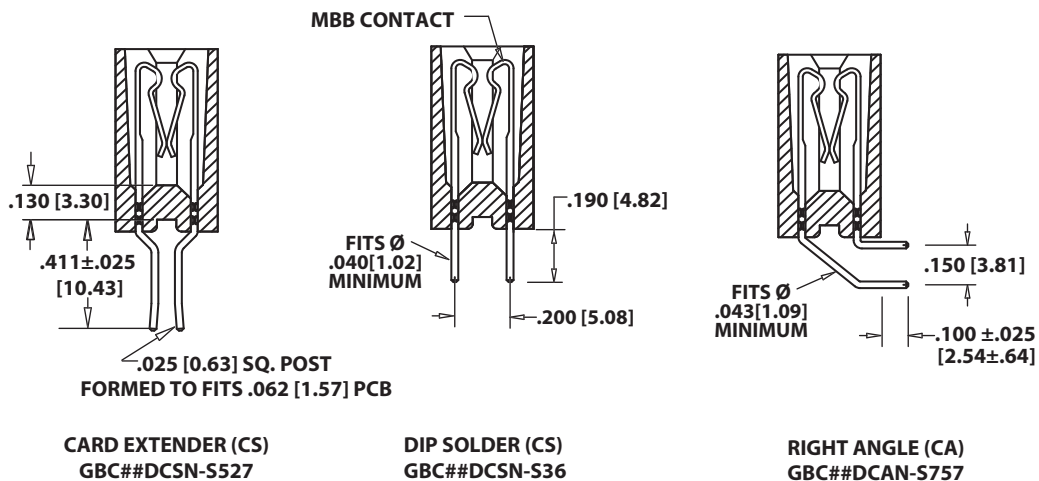
DUAL (D)

MOUNTING STYLE



NO MOUNTING EARS (N)

TERMINATION TYPE





.100" [2.54mm] Contact Centers, .690" Insulator Height
Make Before Break Dip Solder/Card Extender/Right Angle

PART NUMBER CODING

G B C 10 D CS N - S36

MATERIALS (INSULATOR/CONTACT)
G = PA9T/Phosphor Bronze
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS
C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS
See Chart Below

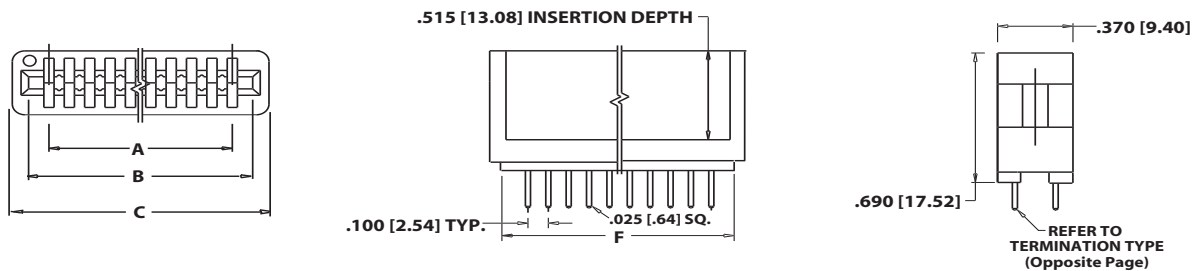
MODIFICATION CODE (Consult Factory)
-S757 = MBB, .150" [3.81mm] Row to Row on Right Angle
-S527 = MBB, Card Extender Accepts .062" [1.57] PCB
-S36 = MBB, Straight Dip-Solder

MOUNTING STYLE
N = No Mounting

TERMINATION TYPE (Opposite Page)
Hairpin Bellows
CS = Dip Solder .025" [.64] Square
CA = Right Angle, .100" [2.54]

READOUT (Opposite Page)
D = Dual

DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES				[MILLIMETERS]			
	A±.008	B±.008	C±.015	F±.015	A±0.20	B±0.20	C±0.38	F±0.38
02/04*	0.100	0.300	0.460	0.350	2.54	7.62	11.68	8.89
04/08*	0.300	0.500	0.660	0.550	7.62	12.70	16.76	13.97
06/12*	0.500	0.700	0.860	0.750	12.70	17.78	21.84	19.05
08/16*	0.700	0.900	1.060	0.950	17.78	22.86	26.92	24.13
10/20*	0.900	1.100	1.260	1.150	22.86	27.94	32.00	29.21
12/24	1.100	1.300	1.460	1.350	27.94	33.02	37.08	34.29
14/28	1.300	1.500	1.660	1.550	33.02	38.10	42.16	39.37
16/32*	1.500	1.700	1.860	1.750	38.10	43.18	47.24	44.45
18/36*	1.700	1.900	2.060	1.950	43.18	48.26	52.32	49.53
20/40*	1.900	2.100	2.260	2.150	48.26	53.34	57.40	54.61
22/44*	2.100	2.300	2.460	2.350	53.34	58.42	62.48	59.69
24/48*	2.300	2.500	2.660	2.550	58.42	63.50	67.56	64.77
26/52*	2.500	2.700	2.860	2.750	63.50	68.58	72.64	69.85
28/56*	2.700	2.900	3.060	2.950	68.58	73.66	77.72	74.93
30/60*	2.900	3.100	3.260	3.150	73.66	78.74	82.80	80.01
32/64*	3.100	3.300	3.460	3.350	78.74	83.82	87.88	85.09
34/68*	3.300	3.500	3.660	3.550	83.82	88.90	92.96	90.17
36/72*	3.500	3.700	3.860	3.750	88.90	93.98	98.04	95.25
38/76*	3.700	3.900	4.060	3.950	93.98	99.06	103.12	100.33
40/80*	3.900	4.100	4.260	4.150	99.06	104.14	108.20	105.41
42/84*	4.100	4.300	4.460	4.350	104.14	109.22	113.28	110.49
44/88*	4.300	4.500	4.660	4.550	109.22	114.30	118.36	115.57
46/92*	4.500	4.700	4.860	4.750	114.30	119.38	123.44	120.65
48/96*	4.700	4.900	5.060	4.950	119.38	124.46	128.52	125.73
50/100	4.900	5.100	5.260	5.150	124.46	129.54	133.60	130.81

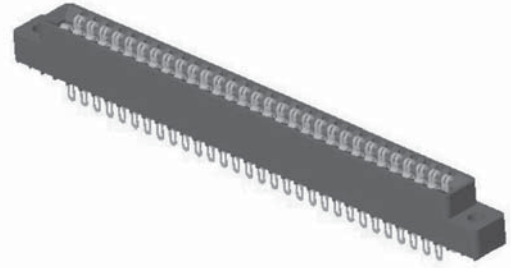
* Consult factory for availability.



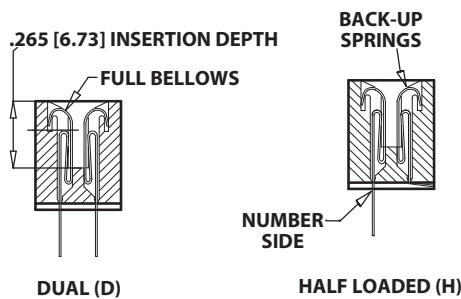
.125" [3.18mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
(Consult factory for .031" $\pm$.008" [.79 $\pm$.20],
.093" $\pm$.008" [2.36 $\pm$.20] and .125" $\pm$.008"
[3.18 $\pm$.20] boards)
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

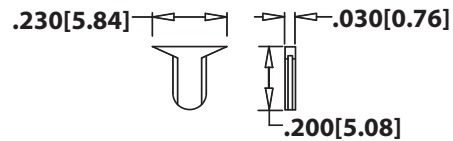


READOUT



POLARIZING KEY

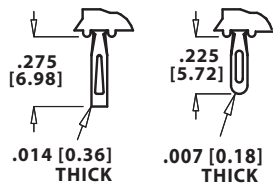
PLA-K1
KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)



CONSULT FACTORY FOR MOLDED-IN KEY

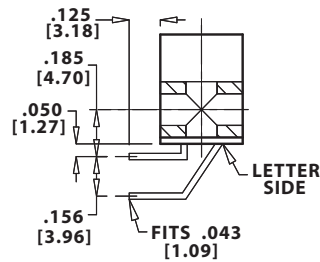
TERMINATION TYPE

EYELET ACCEPTS 3-#26 AWG

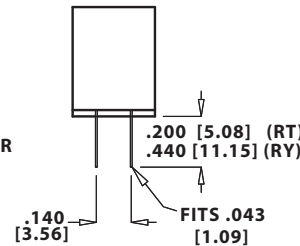


**EYELET
(TE)**

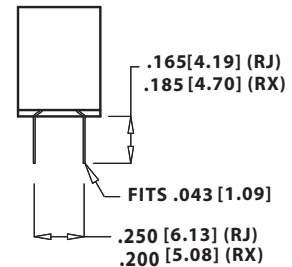
**EYELET
(RE)**



**RIGHT ANGLE
(RA)**

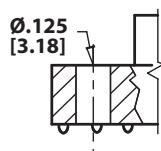


**NARROW DIP SOLDER
(RT, RY)**

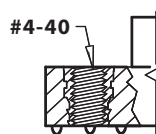


**WIDE DIP SOLDER
(RJ, RX)**

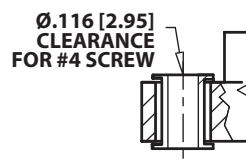
MOUNTING STYLE



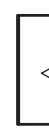
**CLEARANCE
HOLE (H)**



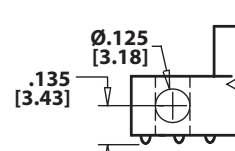
**THREADED
INSERT (I)**



**FLOATING
BOBBIN (F)**



**NO MOUNTING
EARS (N)**



**SIDE MOUNTING
(S)**



.125" [3.18mm] Contact Centers, .431" Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

PART NUMBER CODING

E B A 43 D RE H - Sxxx

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
- Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- *Consult Factory for availability.

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
A = .125" [3.18mm]

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

- S13 = Card Extender Accepts .062" [1.57] PCB (RT, RE, RY Terminations Only)
- S734 = .031" ± .008" [.79 ± .20] Thick PCB

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder
- RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder
- RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder
- RJ = .250" [6.35mm] x .165" [4.19mm] Dip Solder

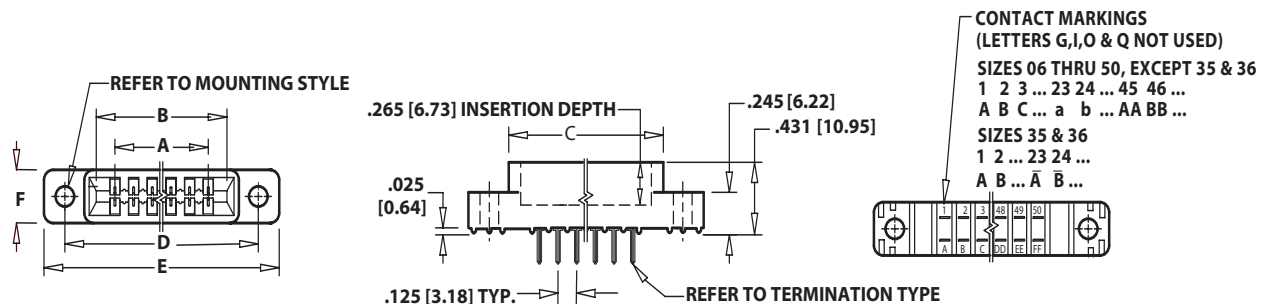
READOUT (Opposite Page)

- D = Dual
- H = Half Loaded

NUMBER OF CONTACT POSITIONS
See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

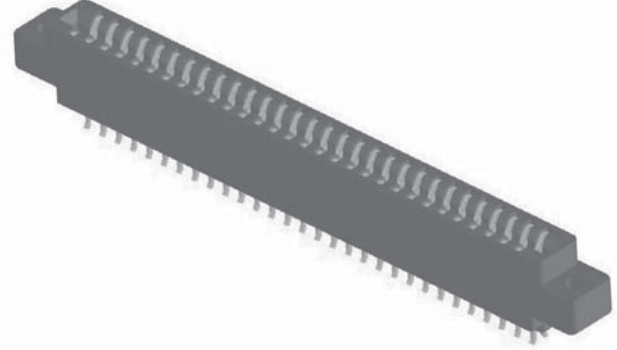
Positions/ Contacts	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325	0.370	111.13	117.48	121.54	128.14	135.26	9.40
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825		123.83	130.18	134.24	140.84	147.96	
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



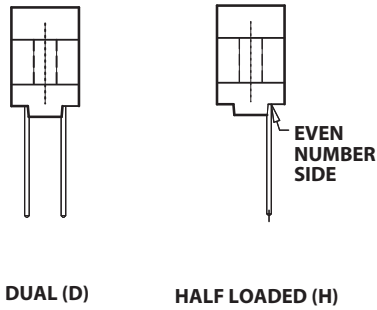
.125" [3.18mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle

SPECIFICATIONS

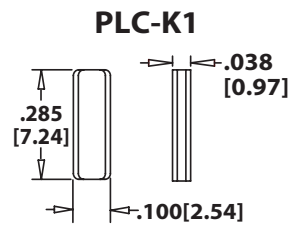
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board (Consult factory for .031" $\pm$.008" [.79 $\pm$.20], See page 52/53 for .093" $\pm$.008" [2.36 $\pm$.20] and .125" $\pm$.008" [3.18 $\pm$.20] PC boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for (MBB) Contacts



READOUT



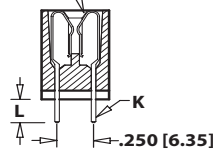
POLARIZING KEY



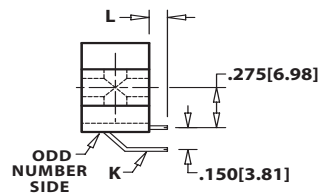
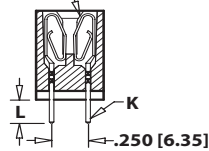
**KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)**

TERMINATION TYPE

HAIRPIN BELLOWS



LOOP BELLOWS



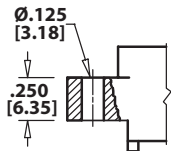
HAIRPIN BELLOWS (CK,CS,CM,CW,CT)

LOOP BELLOWS (TK,RS,RM,CK)

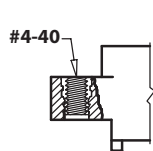
RIGHT ANGLE, DIP SOLDER (CA,CB,CC,TA,TB,TM)

HAIRPIN BELLOWS	LOOP	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CM	TK, CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
	RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
	RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
	TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
CW		DIP SOLDER	.015 X .025 [.38 X .64]	.125 [3.18]	.035 [0.76]
CT		DIP SOLDER	.015 X .025 [.38 X .64]	.170 [4.32]	.035 [0.76]
CS		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]

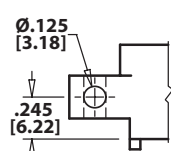
MOUNTING STYLE



CLEARANCE HOLE (H)



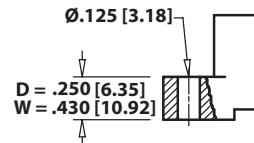
THREADED INSERT (I)



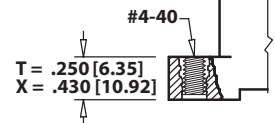
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



**FLUSH MOUNTING WITH
THREADED INSERT (T, X)**

**.125" [3.18mm] Contact Centers, .610" Insulator Height
Dip Solder/Wire Wrap/Right Angle**



PART NUMBER CODING

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
A = .125" [3.18mm]

NUMBER OF CONTACT POSITIONS
See Chart Below

READOUT (Opposite Page)
D = Dual
H = Half Loaded

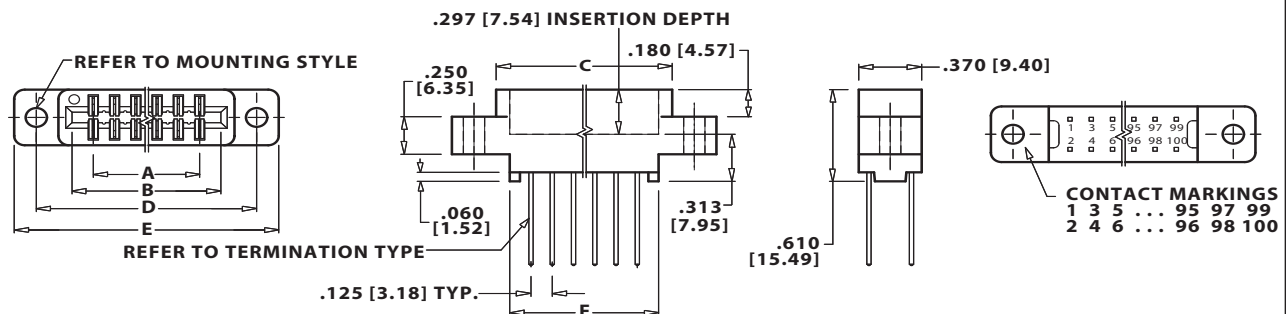
MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD
-S288 = Card Extender Accepts .062" [1.57] PCB

MOUNTING STYLE (Opposite Page)
H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting
W = Flush Mounting
D = Flush Mounting
X = Flush Mounting with Threaded Inserts
T = Flush Mounting with Threaded Inserts

TERMINATION TYPE (Opposite Page)
Hairpin Bellows **
CS = .025" [0.64mm] Square Dip Solder
CM = .025" [0.64mm] Square Wire Wrap
CA, CB, CC = .025" [0.64mm] Square Right Angle
CW, CT = .015" x .025" Dip Solder
Loop Bellows
RS = .025" [0.64mm] Square Dip Solder
CK, TK = .026" [0.66mm] Round Dip Solder
RM = .025" [0.64mm] Square Wire Wrap
TA, TB, TM = .025" [0.64mm] Square Right Angle
****Available with B or C Plating and Phosphor Bronze Only**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

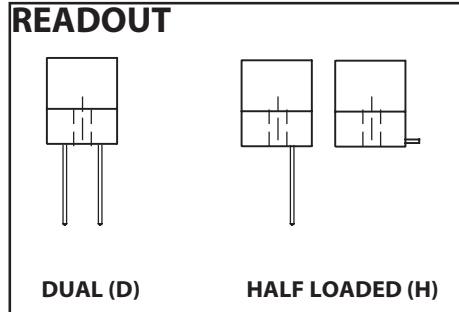
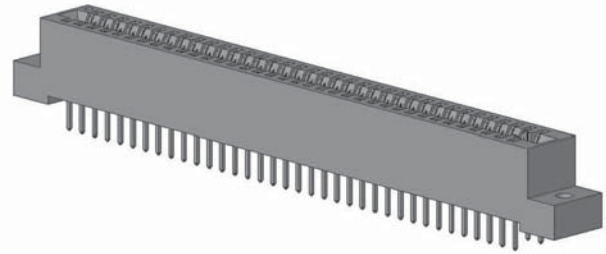




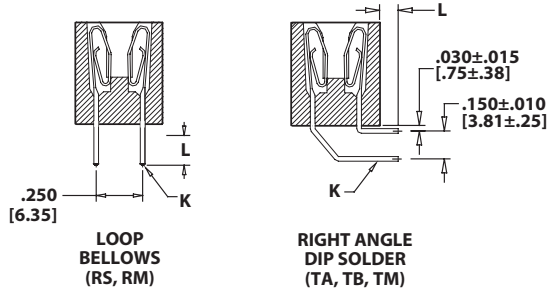
**.125" [3.18mm] Contact Centers, .610" Insulator Height,
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

SPECIFICATIONS

- Accommodates .093" $\pm$.008" [2.36 $\pm$.20] or .125" $\pm$.008" [3.18 $\pm$.20] mating PCB
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

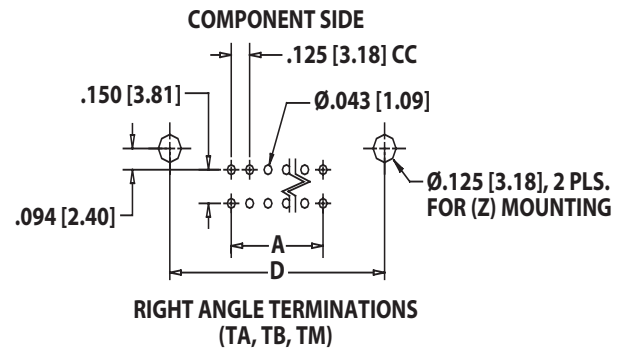
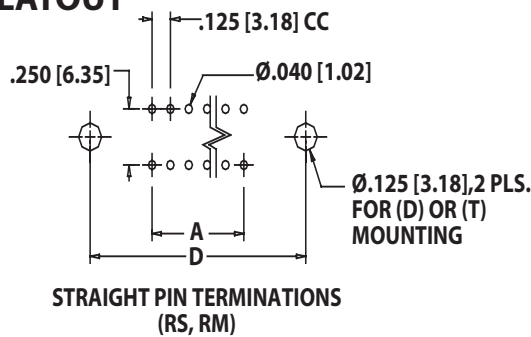


TERMINATION TYPE

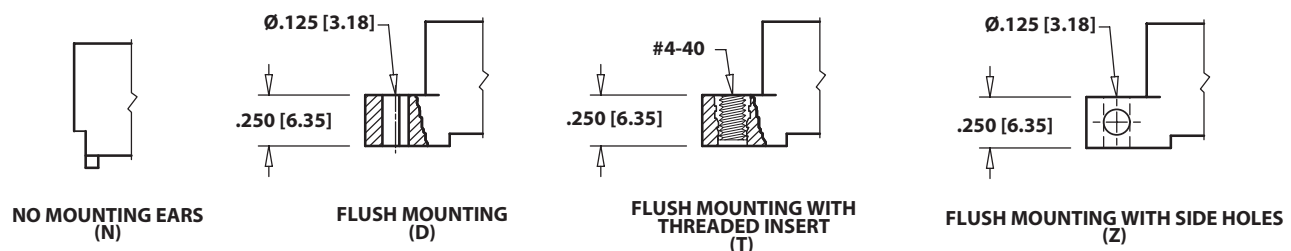


TERMINATION TYPE	POST CROSS SECTION (K)	POST LENGTH L $\pm$.025 [0.64]	FITS MIN. HOLE SIZE
RS DIP SOLDER	.025 [0.64] SQUARE	.190 [4.83]	.040 [1.02]
RM WIRE WRAP	.025 [0.64] SQUARE	.560 [14.20]	.040 [1.02]
TA RIGHT ANGLE	.025 [0.64] SQUARE	.100 [2.54]	.043 [1.09]
TB RIGHT ANGLE	.025 [0.64] SQUARE	.180 [4.57]	.043 [1.09]
TM RIGHT ANGLE	.025 [0.64] SQUARE	.250 [6.35]	.043 [1.09]

PCB LAYOUT



MOUNTING STYLE





**.125" [3.18mm] Contact Centers, .610" Insulator Height,
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

PART NUMBER CODING

E B A 50 D RM D - S273

MATERIALS (Insulator/Contact)
E = PBT/Phosphor Bronze(Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
A = .125" [3.18mm]

MODIFICATION CODE (Consult Factory)
-S273 = FOR .093" ± .008" [2.36 ± .20] THICK MATING PCB
-S664 = FOR .125" ± .008" [3.18 ± .20] THICK MATING PCB

MOUNTING STYLE (Opposite Page)
N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Inserts
Z = Flush Mounting With Side Holes

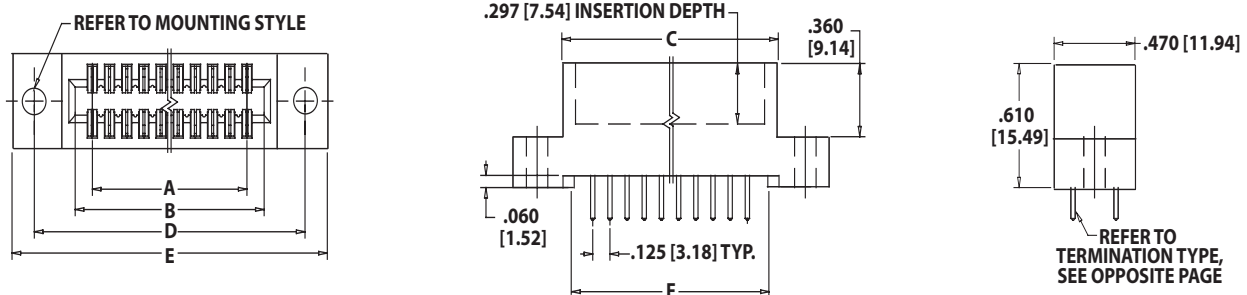
TERMINATION TYPE (Opposite Page)
RS = .025" [0.64mm] Square Dip Solder
RM = .025" [0.64mm] Square Wire Wrap
TA, TB, TM = .025" [0.64mm] Square Right Angle

READOUT (OPPOSITE PAGE)
D = Dual
H = Half Loaded

NUMBER OF CONTACT POSITIONS
See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20*	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28*	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30*	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36*	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44*	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48*	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
25/50*	3.000	3.250	3.410	3.670	3.930	3.250	76.20	82.55	86.61	93.22	99.82	82.55
28/56*	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62*	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64*	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70*	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80*	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86*	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88*	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98*	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93

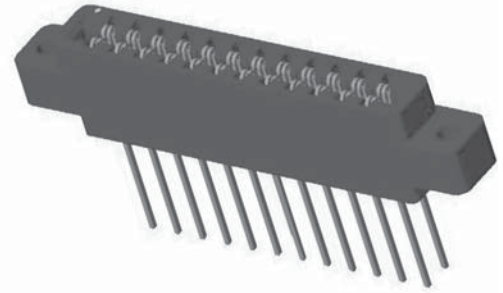
* Consult Factory For Availability.



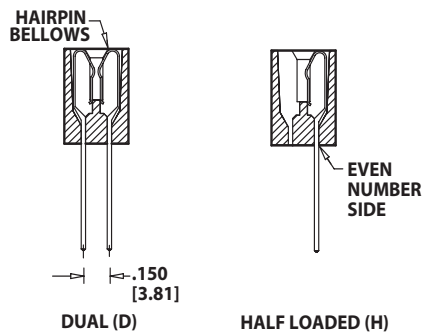
.150" [3.81mm] Contact Centers, .550" Insulator Height Dip Solder/Wire Wrap

SPECIFICATIONS

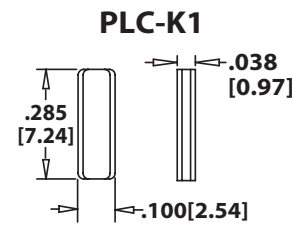
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm max. at rated current



READOUT

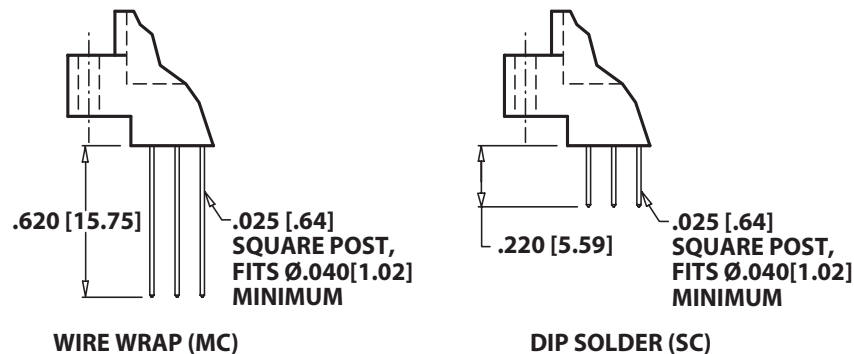


POLARIZING KEY

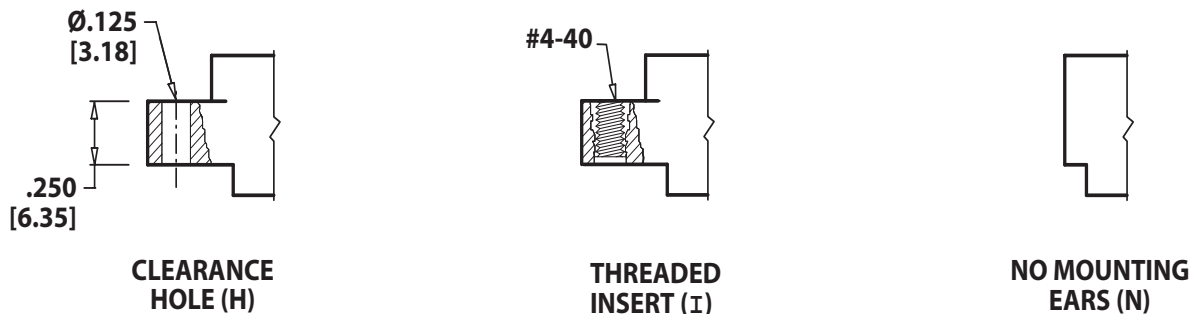


KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)

TERMINATION TYPE



MOUNTING STYLE



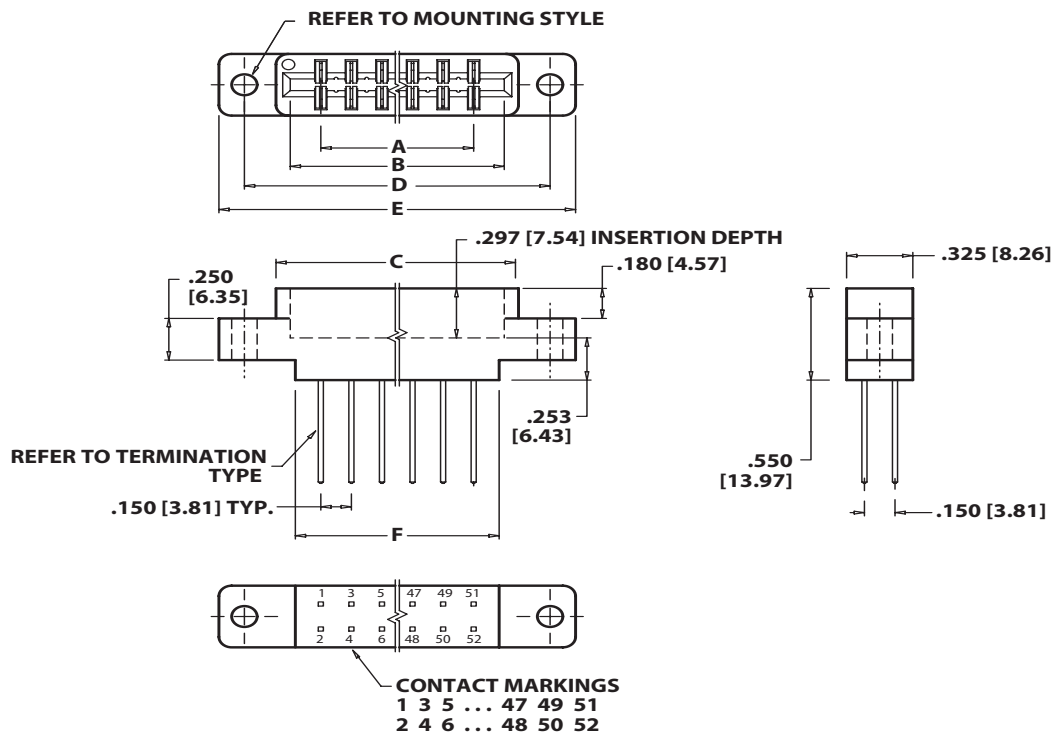


PART NUMBER CODING

MATERIALS (Insulator/Contact)	E	B	J	26	D	MC	H	- Sxxx	MODIFICATION CODE (Consult Factory) OMIT FOR STANDARD
E = PBT/Phosphor Bronze (Standard)									
R = PPS/Phosphor Bronze									
G = PA9T/Phosphor Bronze (Consult Factory for Other Materials)									
CONTACT FINISH - RoHS Compliant									
All platings are Lead Free and have .000050" Nickel underplate									
Contact Surface									
B = .000010" Gold									
C = .000030" Gold									
Termination									
.000100" Pure Tin, Matte									
.000100" Pure Tin, Matte									
CONTACT CENTERS									
J = .150" [3.81mm]									
NUMBER OF CONTACT POSITIONS									
See Chart Below									
									MOUNTING STYLE (Opposite Page)
									H = Clearance Holes
									I = Threaded Inserts
									N = No Mounting
									TERMINATION TYPE (Opposite Page)
									MC = .025" [.64mm] Square Wire Wrap
									SC = .025" [.64mm] Square Dip Solder
									READOUT (Opposite Page)
									D = Dual
									H = Half Loaded

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

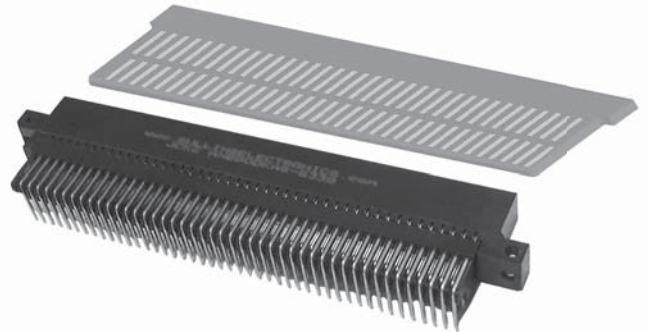
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±.020	B±.020	C±.038	D±.025	E±.051	F±.038
12/24	1.650	1.950	2.090	2.400	2.650	2.000	41.91	49.53	53.09	60.96	67.31	50.80
18/36*	2.550	2.850	2.990	3.300	3.550	2.800	64.77	72.39	75.95	83.82	90.17	71.12
22/44*	3.150	3.450	3.590	3.900	4.150	3.400	80.01	87.63	91.19	99.06	105.41	86.36
26/52	3.750	4.050	4.190	4.500	4.750	4.000	95.25	102.87	106.43	114.30	120.65	101.60
28/56*	4.050	4.350	4.490	4.800	5.050	4.300	102.87	110.49	114.05	121.92	128.27	109.22

* Consult Factory For Availability.

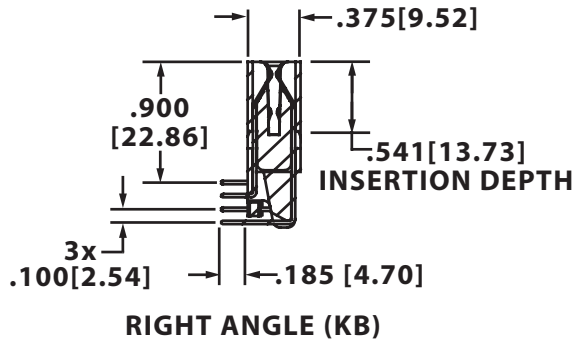


SPECIFICATIONS

- .078" Contact Center Spacing can replace .156" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates $.062" \pm .008"$ [1.57 $\pm$.20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



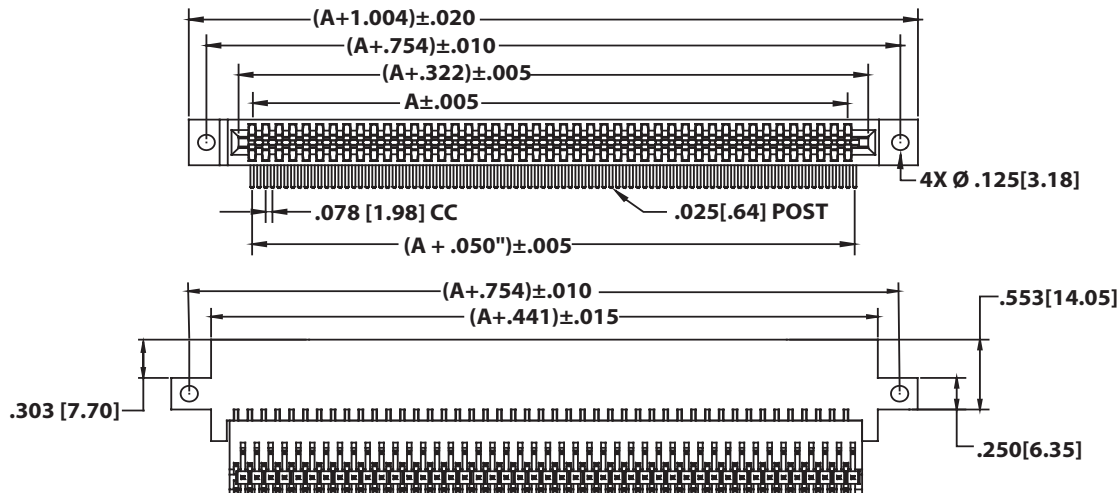
TERMINATION TYPE



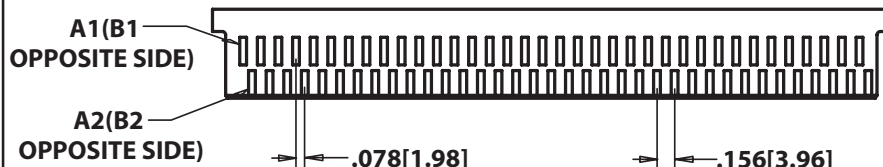
HIGH DENSITY
HIGH TEMPERATURE
HIGH CYCLE
HIGH RELIABILITY

DIMENSIONS

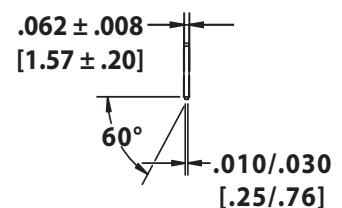
Dimensions in [] are in millimeters, all others are in inches.



DAUGHTER CARD LAYOUT



DAUGHTER CARD SIDE VIEW





PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
- R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
- J = PA9T/Beryllium Copper
Operating Temperature: 150°C
- A = PPS and PA9T/Beryllium Copper
Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

- B = .000010" Gold .000100" Pure Tin, Matte
- C = .000030" Gold .000100" Pure Tin, Matte
- Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- K = .078" [1.98mm]

A C K 10 D KB S - Sxxx

OMIT FOR STANDARD

S - S1075 = Staggered Ears with
Side Mounting Holes

A - S1076 = Staggered Ears with
#4-40 Threaded Inserts

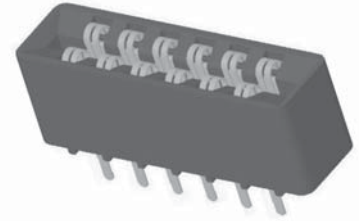
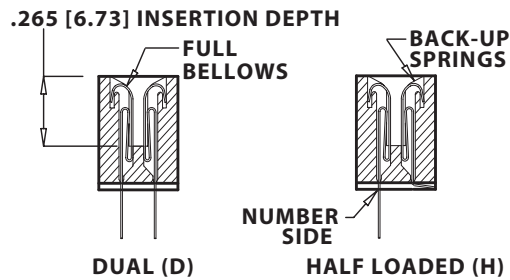
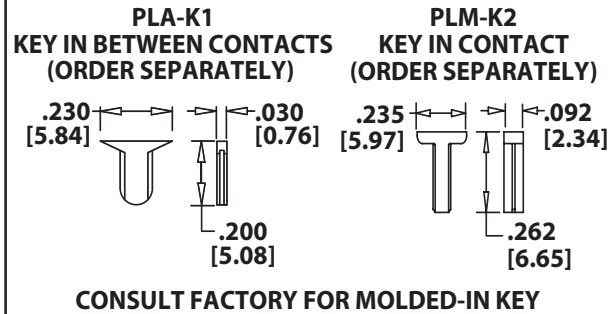
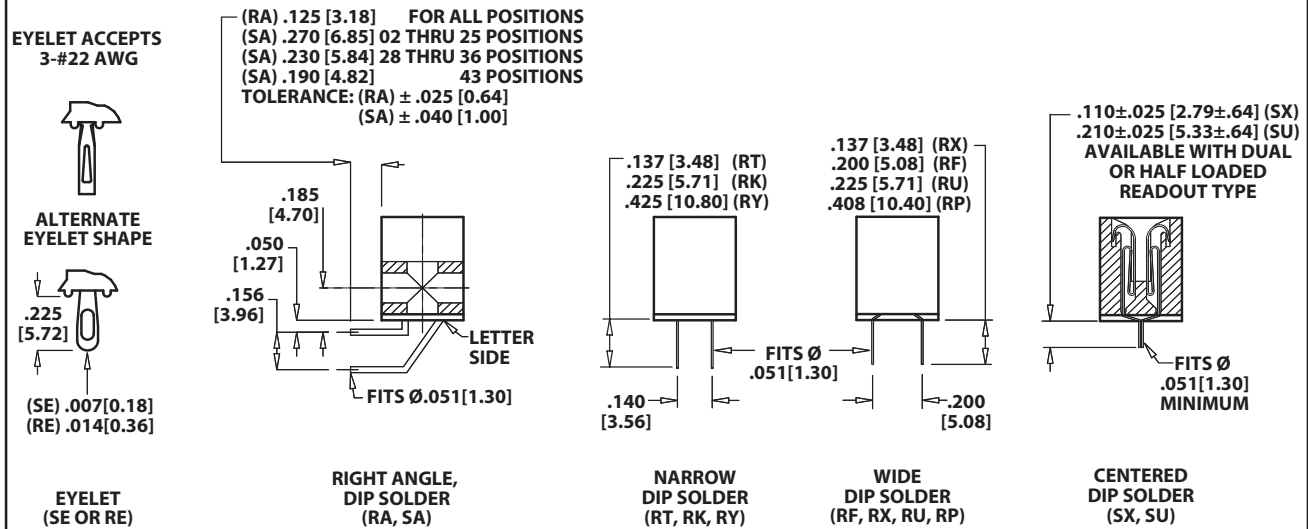
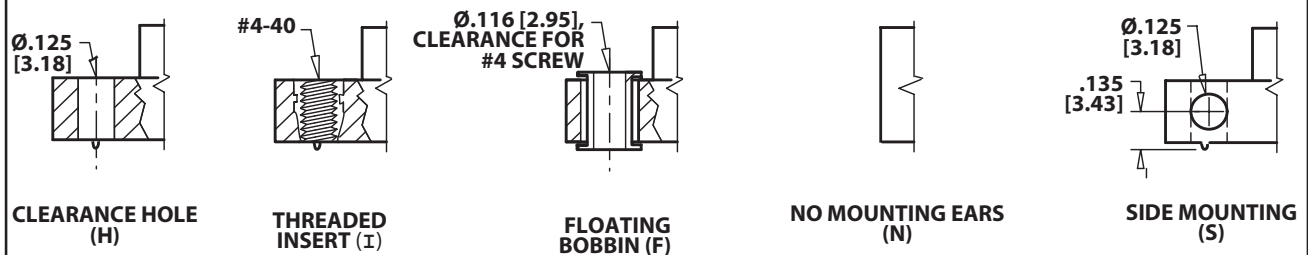
POSITIONS	Dimension A (See Opposite Page)		
	No. of Contacts	Inches	[MM]
06	12	0.780	19.81
08	16	1.092	27.74
10	20	1.404	35.66
12	24	1.716	43.59
14	28	2.028	51.51
16	32	2.340	59.44
18	36	2.652	67.36
20	40	2.964	75.29
22	44	3.276	83.21
24	48	3.588	91.14
26	52	3.900	99.06
28	56	4.212	106.98
30	60	4.524	114.91
32	64	4.836	122.83
34	68	5.148	130.76
36	72	5.460	138.68
38	76	5.772	146.61
40	80	6.084	154.53
42	84	6.396	162.46
44	88	6.708	170.38
46	92	7.020	178.31
48	96	7.332	186.23
50	100	7.644	194.16
52	104	7.956	202.08
54	108	8.268	210.01
56	112	8.580	217.93
58	116	8.892	225.86
60	120	9.204	233.78
62	124	9.516	241.71
64	128	9.828	249.63
66	132	10.140	257.56
68	136	10.452	265.48
70	140	10.764	273.41
72	144	11.076	281.33

MOUNTING STYLE		
H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	

MODIFICATION CODE
(CONSULT FACTORY)
STAGGERED EARS WITH SIDE MOUNTING HOLES (S-S1075)
STAGGERED EARS WITH #4-40 THREADED INSERTS (A-S1076)

**.156" [3.96mm] Contact Centers, .431" Insulator Height**
Dip Solder/Eyelet/Right Angle**SPECIFICATIONS**

- Accommodates $.062" \pm .008"$ [1.57 $\pm$.20] PC board
- Molded-in key available
- 3 amp current rating per contact
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current

**READOUT****POLARIZING KEY****TERMINATION TYPE****MOUNTING STYLE**



.156" [3.96mm] Contact Centers, .431" Insulator Height Dip Solder/Eyelet/Right Angle

PART NUMBER CODING

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- *Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

E B M 43 D RK H - Sxxx

MODIFICATION CODE (Consult Factory)

- OMIT FOR STANDARD
- S13 = Card Extender Accepts .062" [1.57] PCB (RT, RK, RY, SE Terminations Only)

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

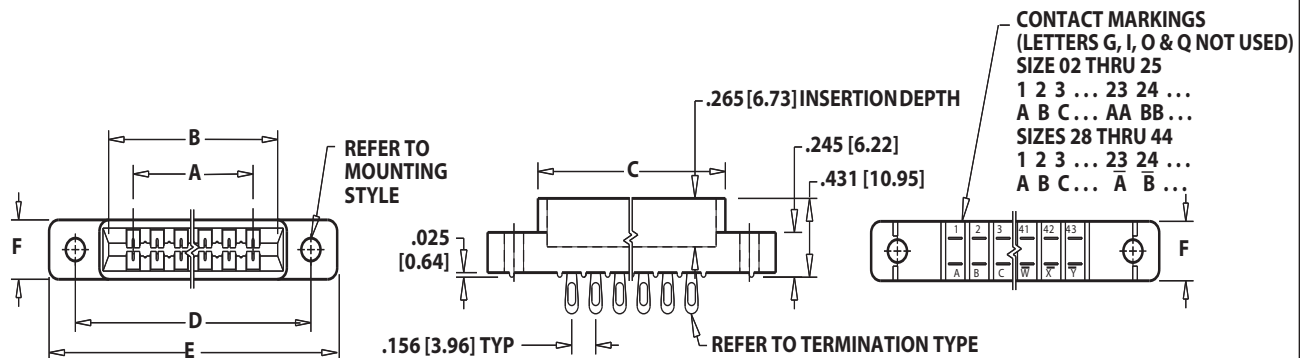
- RA = .125" Right Angle Dip Solder
- SA = Long Right Angle Dip Solder
- RT = .140" x .137" Dip Solder
- RK = .140" x .225" Dip Solder
- RY = .140" x .425" Dip Solder
- RX = .200" x .137" Dip Solder
- RF = .200" x .200" Dip Solder
- RU = .200" x .225" Dip Solder
- RP = .200" x .408" Dip Solder
- SX = .110" [2.79mm] Centered Dip Solder
- SU = .210" [5.33mm] Centered Dip Solder
- SE = .007" [0.18mm] Thick Eyelet
- RE = .014" [0.36mm] Thick Eyelet

READOUT (Opposite Page)

- D = Dual
- D = Dual Row/ Crimp to Center for Single Readout (SX, SU Termination Only)
- H = Half Loaded

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

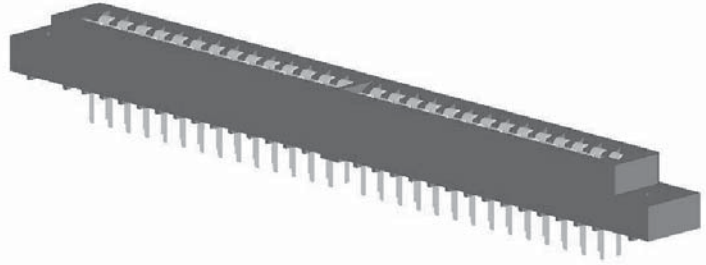
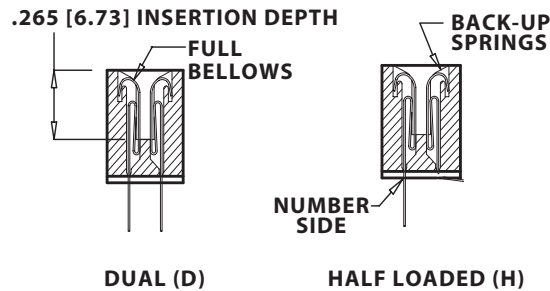
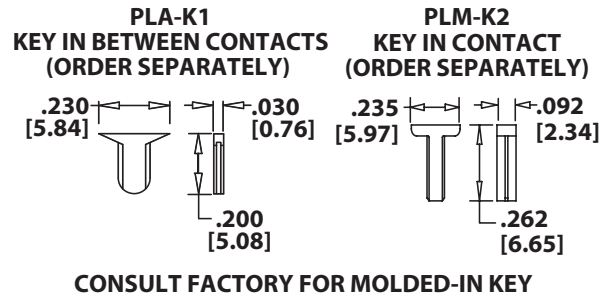
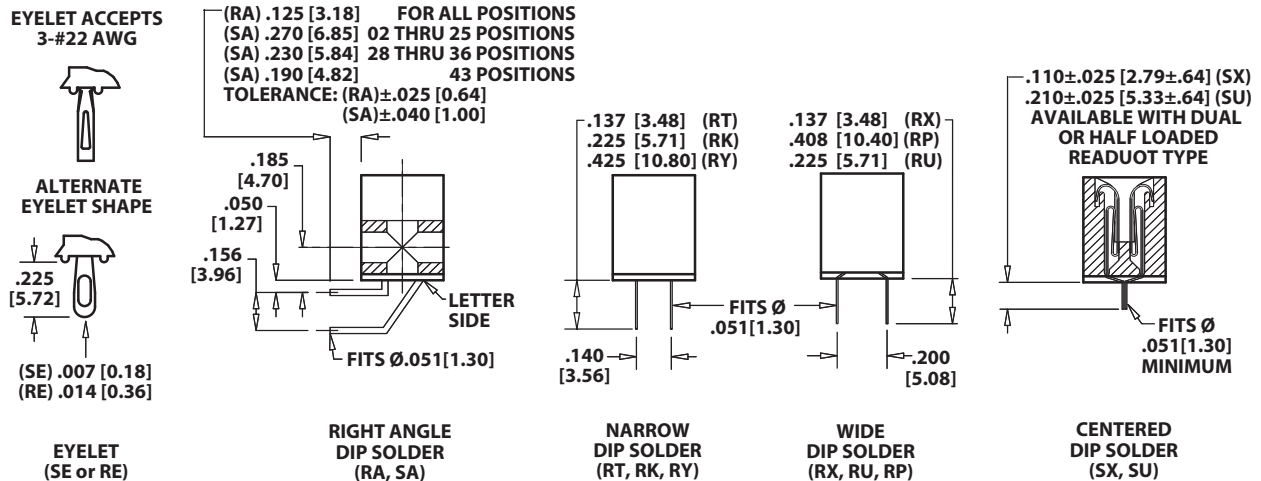
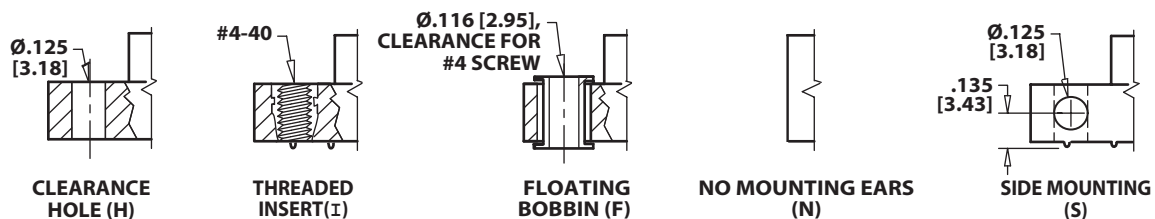


Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13
02/04	0.156	0.476	0.596	.156	.431	0.325	3.96	12.09	15.14	.431	.431	8.26
03/06	0.312	0.632	0.752	.156	.431		7.92	16.05	19.10	.431	.431	
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12	
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63	
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334	0.438	106.98	115.11	118.16	126.11	135.48	11.13
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18	
43/86	6.552	6.872	6.992	7.305	7.674	0.500	166.42	174.55	177.60	185.55	194.92	12.70
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	

**.156" [3.96mm] Contact Centers, .431" Insulator Height
Special Body Configuration Dip Solder/Eyelet/Right Angle****SPECIFICATIONS**

- Accommodates .062" $\pm$.008"
[1.57 $\pm$.20] PC board
- Molded-in key available
- 3 amp current rating per contact
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current

**READOUT****POLARIZING KEY****TERMINATION TYPE****MOUNTING STYLE**



**.156" [3.96mm] Contact Centers, .431" Insulator Height
Special Body Configuration Dip Solder/Eyelet/Right Angle**

PART NUMBER CODING

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
*F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
*C = PPS/Beryllium Nickel (Overall Gold Plating Only)
*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
*Consult Factory for availability.

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold

	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS
28 (14/14), 36 or 43

MODIFICATION CODE (Consult Factory)
-S37 = Reverse Contact ID & Shorter Card Slot Length
-S92 = Center Barrier Molded in Card Slot

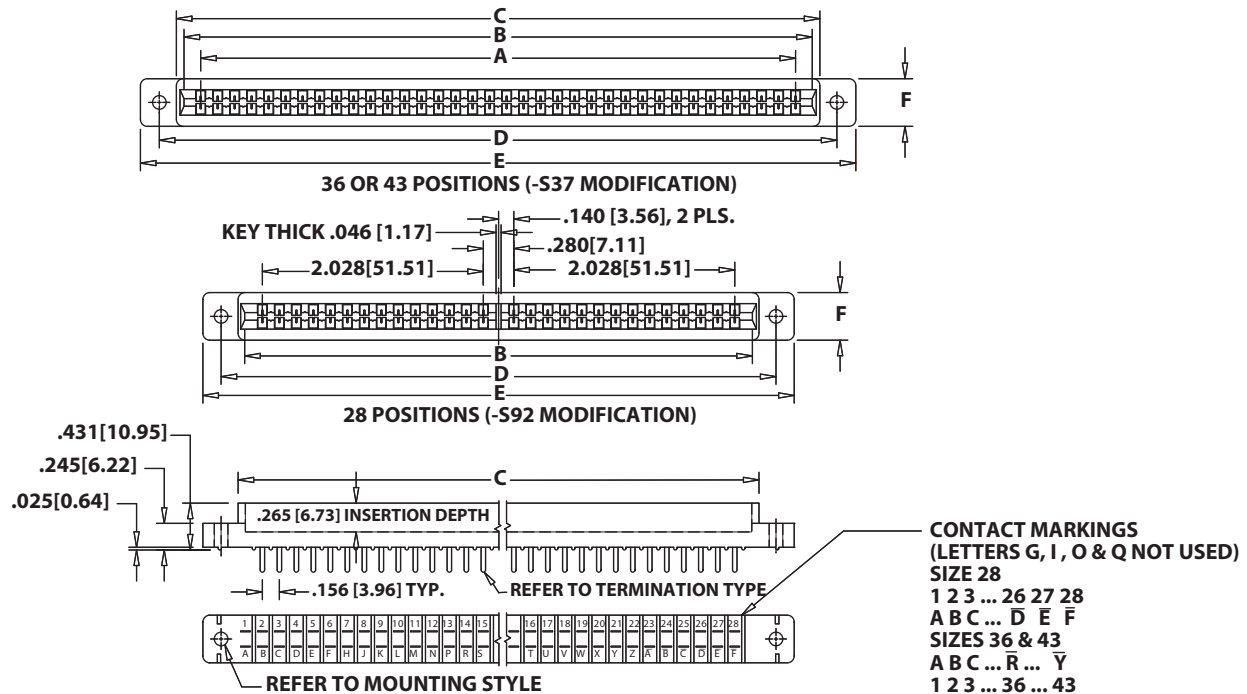
MOUNTING STYLE (Opposite Page)
H = .125" [3.18mm] Clearance Holes
N = No Mounting
S = Side Mounting
I = Threaded Insert
F = Floating Bobbin

TERMINATION TYPE (Opposite Page)
RA = .125" Right Angle Dip Solder
SA = Long Right Angle Dip Solder
RT = .140" x .137" Dip Solder
RK = .140" x .225" Dip Solder
RY = .140" x .425" Dip Solder
RX = .200" x .137" Dip Solder
RU = .200" x .225" Dip Solder
RP = .200" x .408" Dip Solder
SX = .110" [2.79mm] Centered Dip Solder
SU = .210" [5.33mm] Centered Dip Solder
SE = .007" [0.18mm] Thick Eyelet
RE = .014" [0.36mm] Thick Eyelet

READOUT (Opposite Page)
D = Dual
D = Dual Row/ Crimp to Center for Single
Readout (SX, SU Termination Only)
H = Half Loaded

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

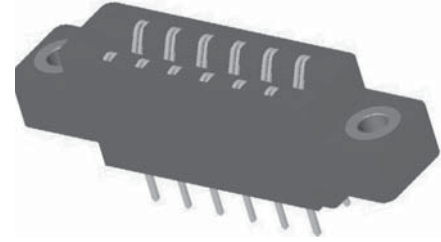
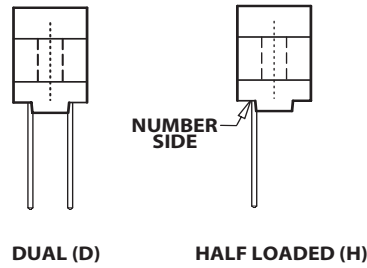
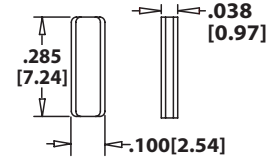


Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

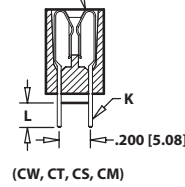
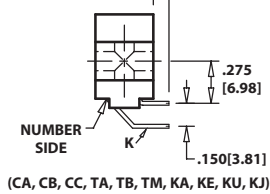
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						CENTER BARRIER
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13	
28/56		4.660	4.780	5.093	5.427	0.438		118.36	121.41	129.36	137.85	11.13	YES
36/72	5.460	5.766	5.906	6.219	6.566	0.438	138.68	146.46	150.01	157.96	166.78	11.13	NO
43/86	6.552	6.810	7.000	7.302	7.643	0.500	166.42	172.97	177.80	185.47	194.13	12.70	NO

**.156" [3.96mm] Contact Centers, .610" Insulator Height**
Dip Solder/Wire Wrap/Right Angle/Card Extender**SPECIFICATIONS**

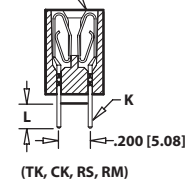
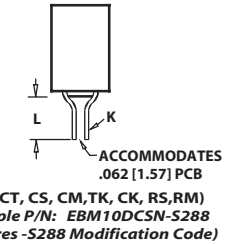
- Accommodates $.062" \pm .008" [1.57 \pm .20]$ PC board (See page 64/65 for $.093" \pm .008" [2.36 \pm .20]$ and $.125" \pm .008" [3.18 \pm .20]$ boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

**READOUT****POLARIZING KEY****PLC-K1****KEY IN BETWEEN CONTACTS**
(ORDER SEPARATELY)**TERMINATION TYPE**

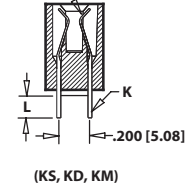
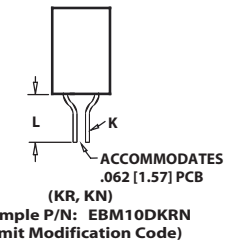
HAIRPIN BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CW	DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CT	DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CS	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
CA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

HAIRPIN BELLOWS**RIGHT ANGLE**

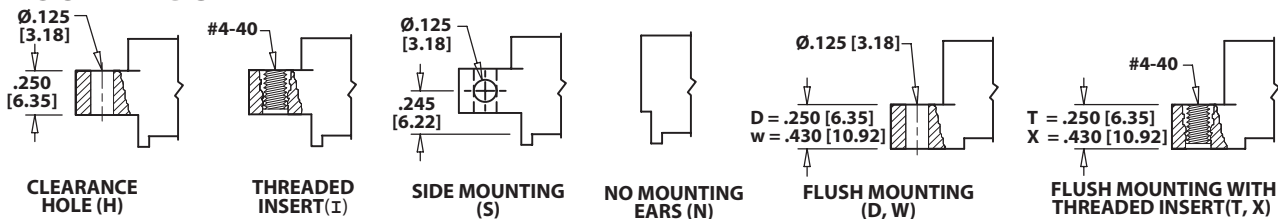
LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
TK,CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

LOOP BELLOWS**HAIRPIN or LOOP CARD EXTENDER**

CANTILEVER	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
KS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
KD	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.043 [1.09]
KM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
*KA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
*KE	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
*KU	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
*KJ	RIGHT ANGLE	.025 [.64] SQUARE	.500 [12.70]	.043 [1.09]
*KR	CARD EXTENDER	.025 [.64] SQUARE	.235 [5.97]	N/A
*KN	CARD EXTENDER	.025 [.64] SQUARE	.605 [15.37]	N/A

CANTILEVER**CANTILEVER CARD EXTENDER**

* KA, KE, KJ, KR, KN have no standoffs, unless requested.

MOUNTING STYLE



.156" [3.96mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle/Card Extender

PART NUMBER CODING

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory For Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

READOUT (Opposite Page)

D = Dual
H = Half Loaded

E B M 43 D CM H - Sxxx

MODIFICATION CODE (Consult Factory)

OMIT FOR STANDARD
-S189 = .200" [5.08mm] Row to Row on Right Angle
-S288* = Card Extender Accepts .062" [1.57] PCB
* Not Required on KR or KN Terminations

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting
D, W = Flush Mounting
T, X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only

CS = .025" [.64mm] Square Dip Solder
CM = .025 [.64mm] Square Wire Wrap
CA, CB, CC = .025" [.64mm] Square Right Angle
CW, CT = .015" x .025" [.38 x .64] Dip Solder

Loop Bellows

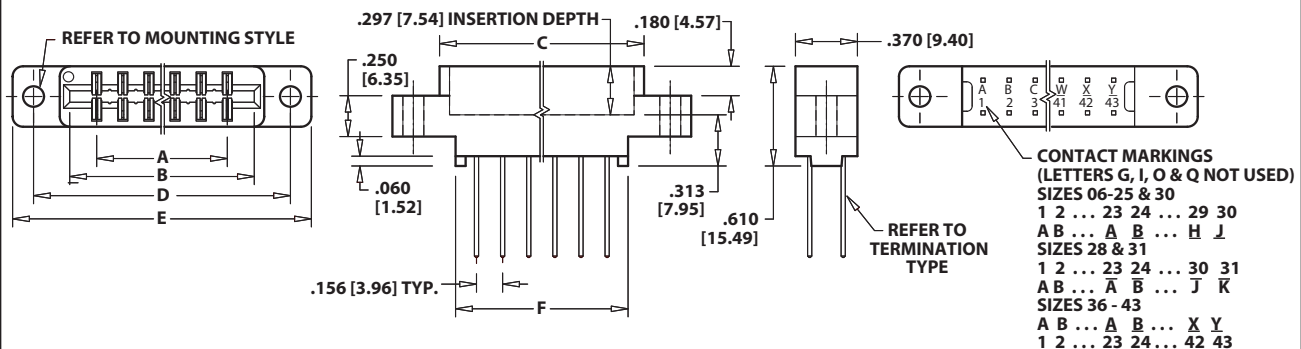
RS = .025" [.64mm] Square Dip Solder
CK, TK = .026" [.66mm] Round Dip Solder
RM = .025" [.64mm] Square Wire Wrap
TA, TB, TM = .025" [.64mm] Square Right Angle

Cantilever Bellows - Available in Y, B, or C Contact Finish Only Not Available with R or A Materials

KS, KD = .025" [.64mm] Square Dip Solder
KM = .025 [.64mm] Square Wire Wrap
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle
KR, KN = .025" [.64mm] Square Card Extender

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

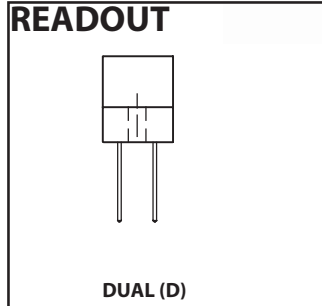
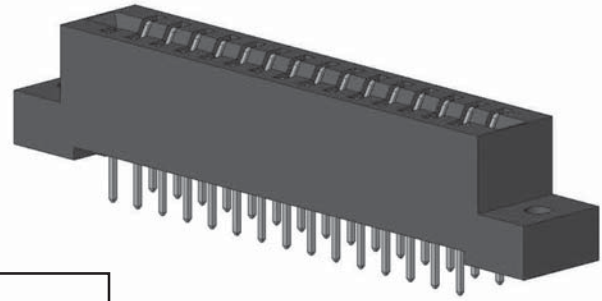
* Consult Factory for availability.



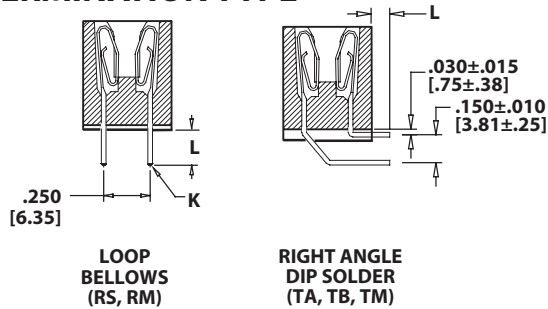
.156" [3.96mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle for .093"[2.36] or .125"[3.18] Mating PCB

SPECIFICATIONS

- Accommodates .093" $\pm$.008" [2.36 $\pm$.20] or .125" $\pm$.008" [3.18 $\pm$.20] mating PCB (Consult factory for .031" $\pm$.008" [.79 $\pm$.20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

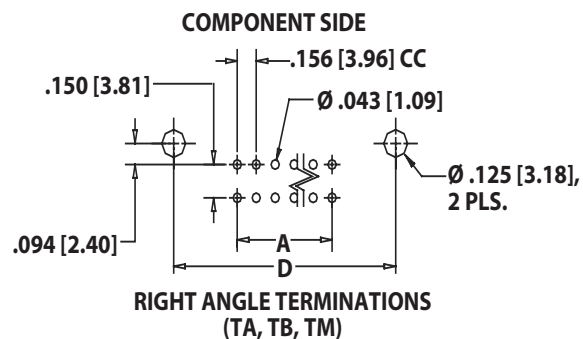
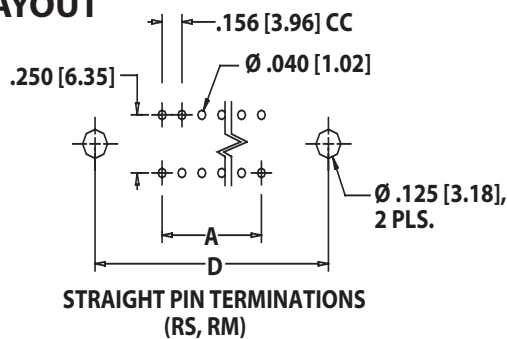


TERMINATION TYPE

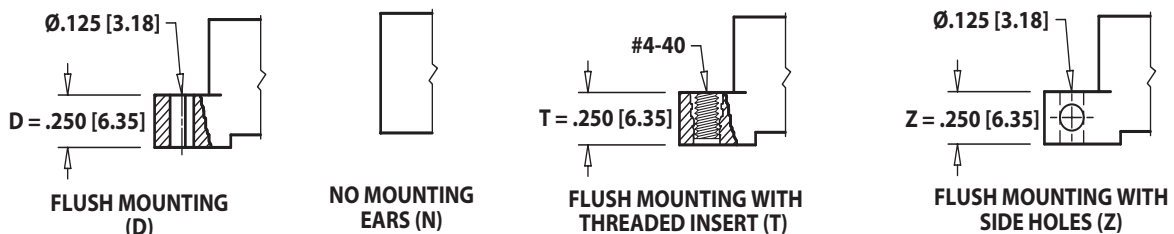


TERMINATION TYPE		POST CROSS SECTION (K)	POST LENGTH L $\pm$.025[.64]	FITS MIN. HOLE SIZE
RS	Dip Solder	.025[.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	Wire Wrap	.025[.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	Right Angle	.025[.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	Right Angle	.025[.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	Right Angle	.025[.64] SQUARE	.250 [6.35]	.043 [1.09]

PCB LAYOUT



MOUNTING STYLE





.156" [3.96mm] Contact Centers, .610" Insulator Height
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB

PART NUMBER CODING

E B M 43 D RM D - S273

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor Bronze
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- (Consult Factory For Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

Contact Surface		Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
Contact Surface		Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
M = .156" [3.96mm]

MODIFICATION CODE (Consult Factory)

- S273 = FOR .093" ± .008" [2.36 ± .20] THICK MATING PCB
- S664 = FOR .125" ± .008" [3.18 ± .20] THICK MATING PCB

MOUNTING STYLE (Opposite Page)

- N = No Mounting
- D = Flush Mounting
- T = Flush Mounting With Threaded Inserts
- Z = Flush Mounting With Side Holes

TERMINATION TYPE (Opposite Page)

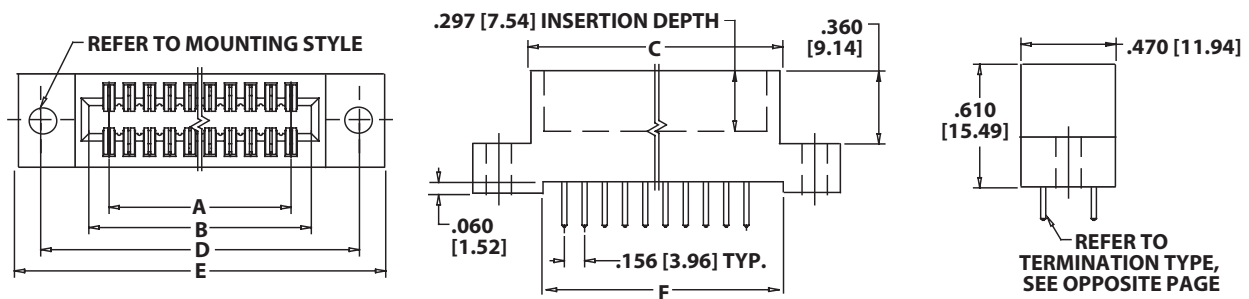
- RS = .025" [.64mm] Square Dip Solder
- RM = .025" [.64mm] Square Wire Wrap
- TA, TB, TM = .025" [.64mm] Square Right Angle

READOUT (Opposite Page)
D = Dual

NUMBER OF CONTACT POSITIONS
See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.104	19.81	27.99	31.01	38.96	45.31	28.04
08/16	1.092	1.414	1.533	1.846	2.096	1.416	27.74	35.92	38.94	46.89	53.24	35.97
10/20*	1.404	1.726	1.845	2.158	2.408	1.728	35.66	43.84	46.86	54.81	61.16	43.89
12/24	1.716	2.038	2.157	2.470	2.720	2.040	43.59	51.77	54.79	62.74	69.09	51.82
15/30*	2.184	2.506	2.625	2.938	3.188	2.508	55.47	63.65	66.68	74.63	80.98	63.70
18/36*	2.652	2.974	3.093	3.406	3.656	2.976	67.36	75.54	78.56	86.51	92.86	75.59
20/40*	2.964	3.286	3.405	3.718	3.968	3.288	75.29	83.46	86.49	94.44	100.79	83.52
22/44	3.276	3.598	3.717	4.030	4.280	3.600	83.21	91.39	94.41	102.36	108.71	91.44
24/48*	3.588	3.910	4.029	4.342	4.592	3.912	91.14	99.31	102.34	110.29	116.64	99.37
25/50*	3.744	4.066	4.185	4.498	4.748	4.068	95.10	103.28	106.30	114.25	120.60	103.33
28/56*	4.212	4.534	4.653	4.966	5.216	4.536	106.98	115.16	118.19	126.14	132.49	115.21
30/60*	4.524	4.846	4.965	5.278	5.528	4.848	114.91	123.09	126.11	134.06	140.41	123.14
31/62*	4.680	5.002	5.121	5.434	5.684	5.004	118.87	127.05	130.07	138.02	144.37	127.10
36/72	5.460	5.782	5.901	6.214	6.464	5.784	138.68	146.86	149.89	157.84	164.19	146.91
40/80*	6.084	6.406	6.525	6.838	7.088	6.408	154.53	162.71	165.74	173.69	180.04	162.76
43/86*	6.552	6.874	6.993	7.306	7.556	6.876	166.42	174.60	177.62	185.57	191.92	174.65

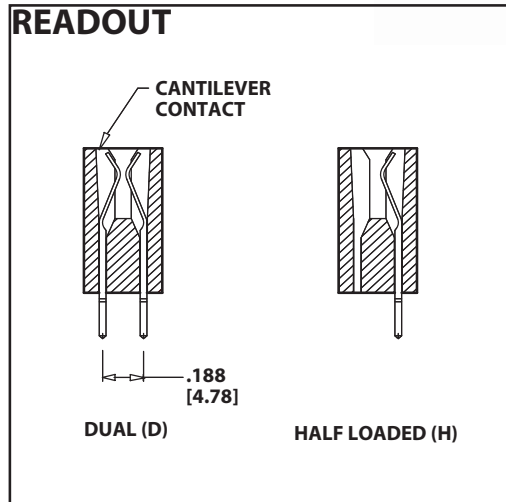
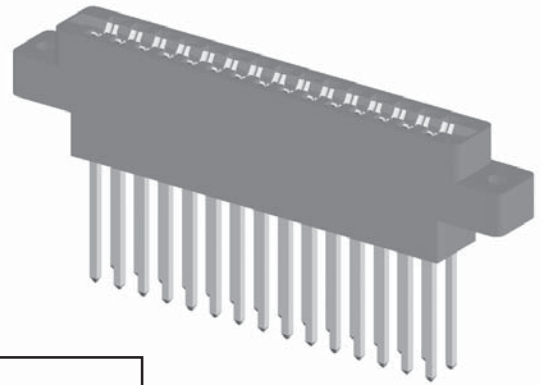
* Consult Factory for availability.



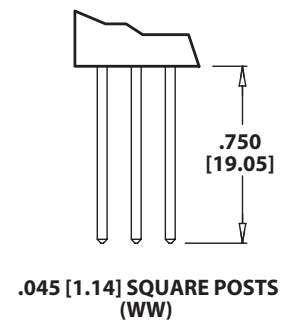
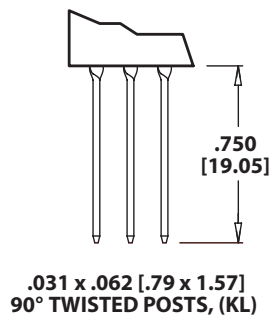
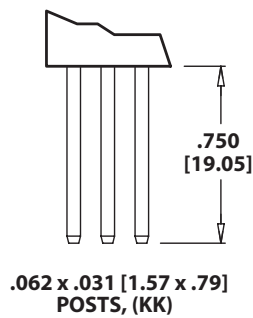
.156" [3.96mm] Contact Centers, .720" Insulator Height
.045" square / .031" x .062" Wire Wrap

SPECIFICATIONS

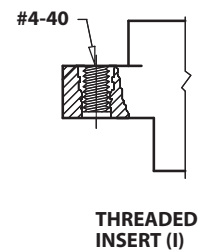
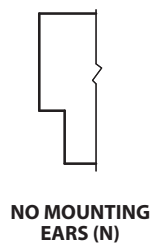
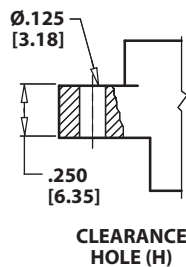
- Accommodates $.062" \pm .008"$ [1.57 $\pm$.20] PC board
- PBT insulator
- Molded-in key available
- In Between Contact Key use PLC-K1, see page 126 (sold separately)
- 5 amp current rating per contact
- 30 milli ohm maximum at rated current



TERMINATION TYPE



MOUNTING STYLE



**.156" [3.96mm] Contact Centers, .720" Insulator Height
.045" square / .031" x .062" Wire Wrap**

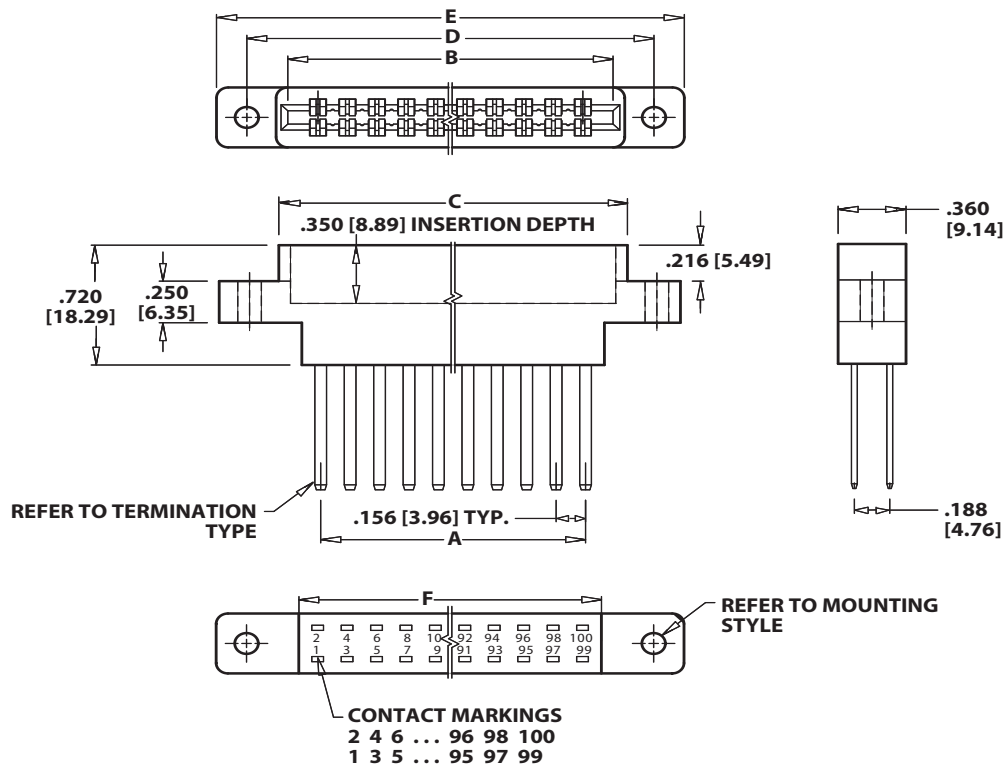


PART NUMBER CODING

MATERIALS (Insulator/Contact)	E	B	M	43	D	KK	H	- Sxxx	MODIFICATION CODE (Consult Factory) OMIT FOR STANDARD
E = PBT/Phosphor Bronze (Standard) (Consult Factory For Other Materials)									
CONTACT FINISH - RoHS Compliant									MOUNTING STYLE (Opposite page)
All platings are Lead Free and have .000050" Nickel underplate									H = Clearance Hole N = No Mounting I = Threaded Inserts
Contact Surface									TERMINATION TYPE (Opposite Page)
Termination									KK = .031" [.79mm] x .062" [1.58mm] Post KL = .031" [.79mm] x .062" [1.58mm] Post, Twisted 90° WW = .045" [1.14mm] Square Post
B = .000010" Gold									READOUT (Opposite Page)
C = .000030" Gold									D = Dual Row H = Half Loaded
G = .000010" Gold									NUMBER OF CONTACT POSITIONS
Y = .000030" Gold									See Chart Below
Contact Surface									
Overall Plating									
S = .000010" Gold									
M = .000030" Gold									
E = .000100" Pure Tin, Matte									
CONTACT CENTERS									
M = .156" [3.96mm]									

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.780	1.100	1.224	1.534	1.784	0.980	19.81	27.94	31.09	38.96	45.31	24.89
10/20	1.404	1.724	1.848	2.158	2.408	1.604	35.66	43.79	46.94	54.81	61.16	40.74
12/24	1.716	2.036	2.160	2.470	2.720	1.916	43.59	51.71	54.86	62.74	69.09	48.67
15/30	2.184	2.504	2.628	2.938	3.188	2.384	55.47	63.60	66.75	74.63	80.98	60.55
18/36	2.652	2.972	3.096	3.406	3.656	2.852	67.36	75.49	78.64	86.51	92.86	72.44
22/44	3.276	3.596	3.720	4.030	4.280	3.476	83.21	91.34	94.49	102.36	108.71	88.29
25/50*	3.744	4.064	4.188	4.498	4.748	3.944	95.10	103.23	106.38	114.25	120.60	100.18
28/56	4.212	4.532	4.656	4.966	5.216	4.412	106.98	115.11	118.26	126.14	132.49	112.06
30/60*	4.524	4.844	4.968	5.278	5.528	4.724	114.91	123.04	126.19	134.06	140.41	119.99
31/62*	4.680	5.000	5.124	5.434	5.684	4.880	118.87	127.00	130.15	138.02	144.37	123.95
36/72	5.460	5.780	5.904	6.214	6.464	5.660	138.68	146.81	149.96	157.84	164.19	143.76
43/86*	6.552	6.872	6.996	7.306	7.556	6.752	166.42	174.55	177.70	185.57	191.92	171.50
50/100*	7.644	7.964	8.088	8.398	8.648	7.844	194.16	202.29	205.44	213.31	219.66	199.24

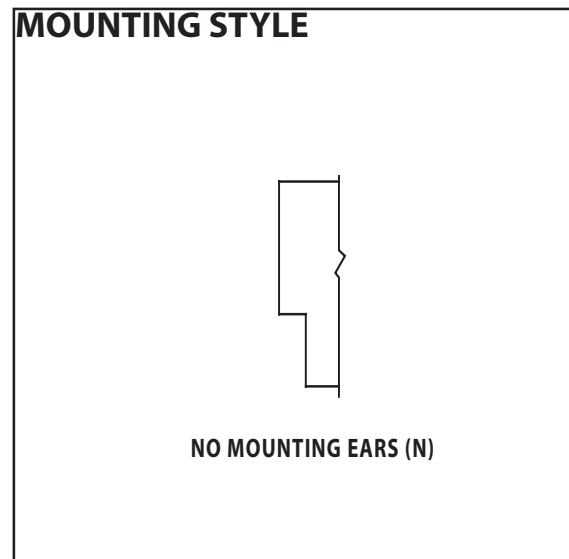
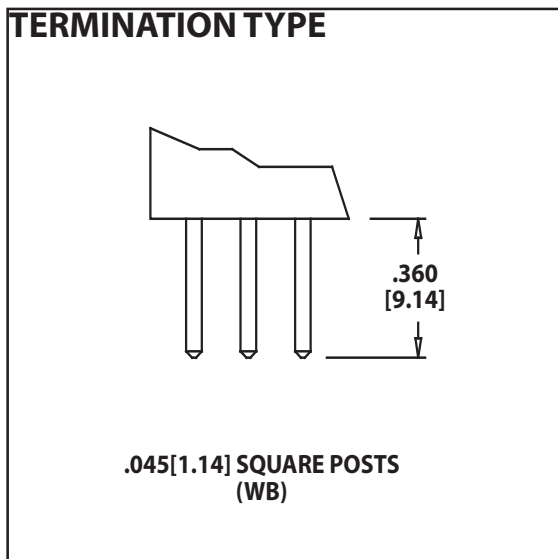
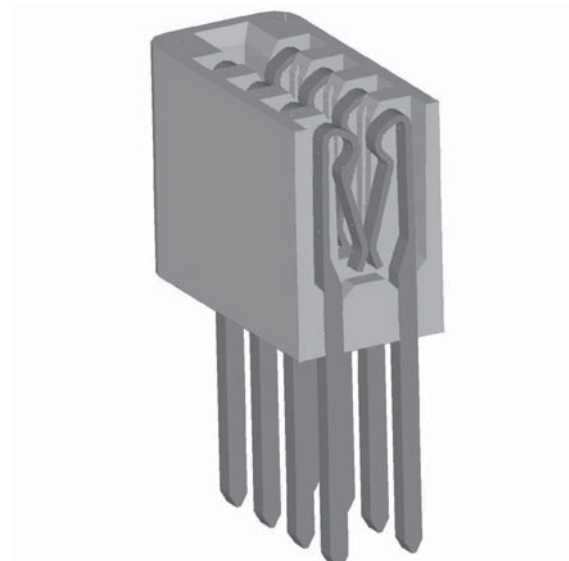
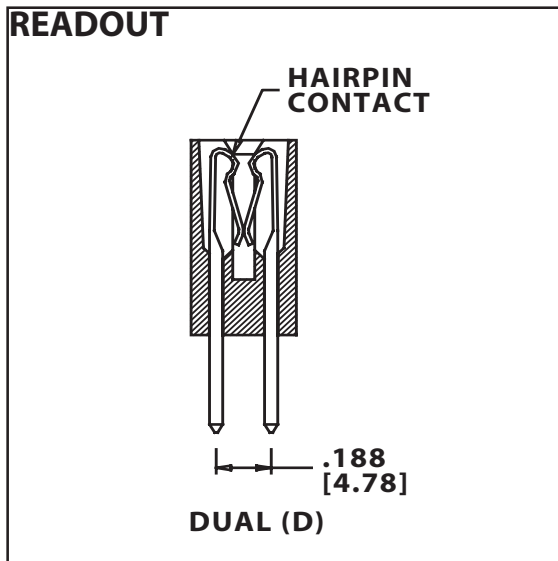
* Consult Factory for availability.



.156" [3.96mm] Contact Centers, .720" Insulator Height
.045" square Make Before Break

SPECIFICATIONS

- Make before break (MBB) Application
- Accommodates .062" $\pm$.008" [1.57 $\pm$.20] PC board
- PBT, PPS or PA9T insulator
- Molded-in key available
- 5 amp current rating per contact
- 30 milli ohm maximum at rated current





**.156" [3.96mm] Contact Centers, .720" Insulator Height
.045" square Make Before Break**

PART NUMBER CODING

E B M 12 D WB N - S796

MATERIALS (Insulator/Contact)
 E = PBT/Phosphor Bronze (Standard)
 R = PPS/Phosphor Bronze
 G = PA9T/Phosphor Bronze
 (Consult Factory For Other Materials)

CONTACT FINISH - RoHS Compliant
 All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination
 B = .000010" Gold .000100" Pure Tin, Matte
 C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS
 M = .156" [3.96mm]

MODIFICATION CODE (Consult Factory)
 -S796 for MBB

MOUNTING STYLE (Opposite Page)
 N = No Mounting

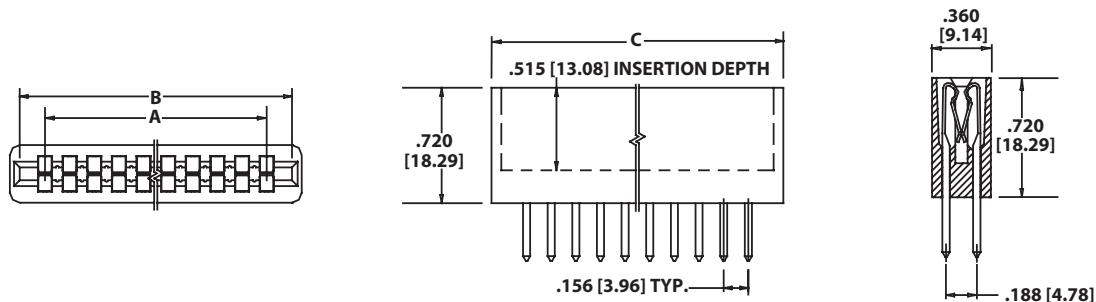
TERMINATION TYPE (Opposite Page)
 WB = .045" [1.14mm] Square Post MBB

READOUT (Opposite Page)
 D = Dual

NUMBER OF CONTACT POSITIONS
 See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES			[MILLIMETERS]		
	A±.08	B±.008	C±.015	A±0.20	B±0.20	C±0.38
10/20*	1.404	1.724	1.848	35.66	43.79	46.94
12/24	1.716	2.036	2.160	43.59	51.71	54.86
15/30*	2.184	2.504	2.628	55.47	63.60	66.75
18/36*	2.652	2.972	3.096	67.36	75.49	78.64
22/44*	3.276	3.596	3.720	83.21	91.34	94.49
25/50*	3.744	4.064	4.188	95.10	103.23	106.38
28/56*	4.212	4.532	4.656	106.98	115.11	118.26
30/60*	4.524	4.844	4.968	114.91	123.04	126.19
31/62*	4.680	5.000	5.124	118.87	127.00	130.15
36/72*	5.460	5.780	5.904	138.68	146.81	149.96
43/86*	6.552	6.872	6.996	166.42	174.55	177.70
50/100*	7.644	7.964	8.088	194.16	202.29	205.44

* Consult Factory for Availability.



**.050" [1.27mm] Contact Centers, Male Header,
Dip Solder/Right Angle/SMT**

SPECIFICATIONS

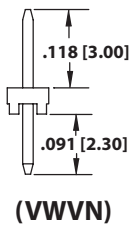
- Insulator Material: Nylon 9T
- Contact Material: Brass
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O



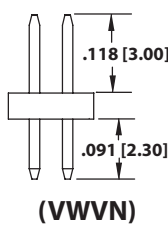
TERMINATION TYPE

SINGLE READOUT

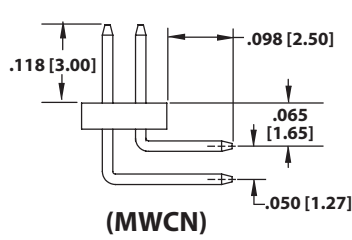
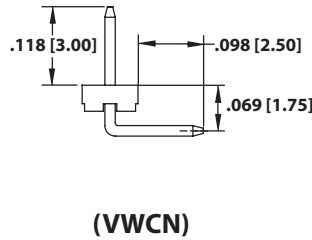
STRAIGHT



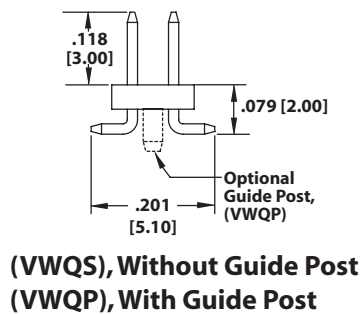
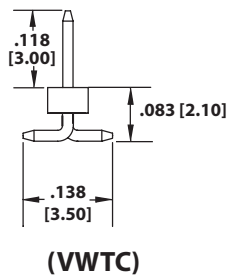
DUAL READOUT



RIGHT ANGLE

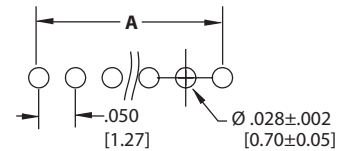


SURFACE MOUNT (SMT)

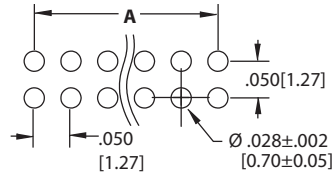


PCB LAYOUT

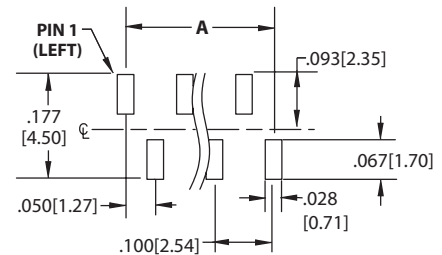
**STRAIGHT (VWV)
RIGHT ANGLE (VWC)**



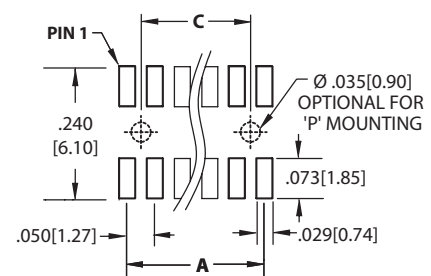
**STRAIGHT (VWV)
RIGHT ANGLE (MWC)**



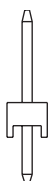
SURFACE MOUNT, PIN 1 LEFT (VWT)



SURFACE MOUNT (VWQ)



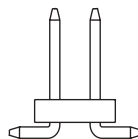
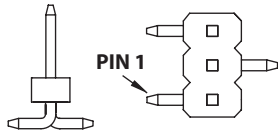
MOUNTING STYLE



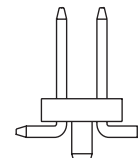
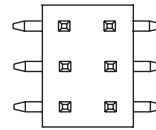
**No Mounting,
(N)**



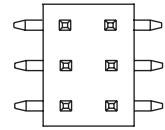
**SMT, Pin 1 Left
(C)**



**SMT, Without Guide Post
(S)**



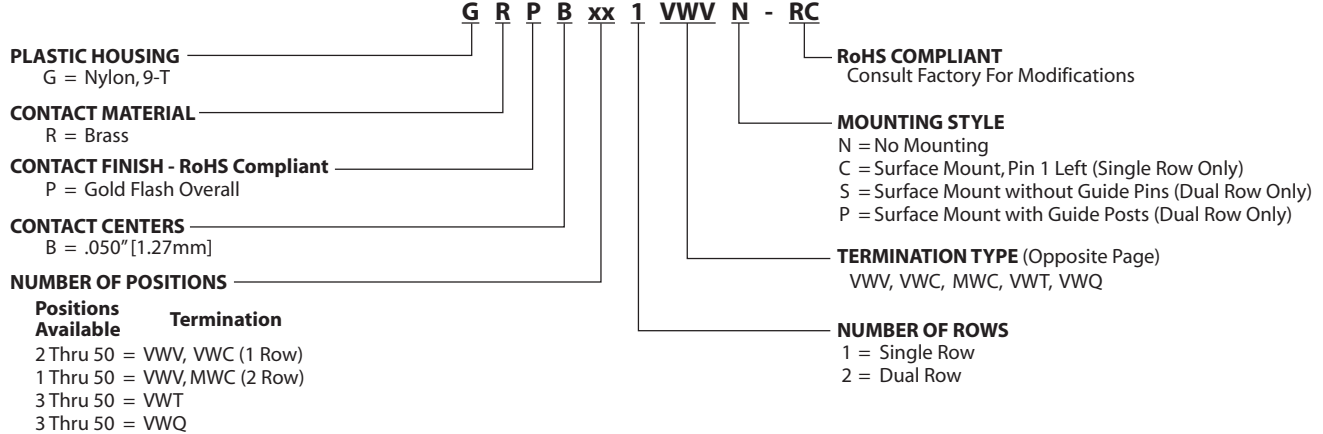
**SMT, With Guide Post
(P)**



**.050" [1.27mm] Contact Centers, Male Header,
Dip Solder/Right Angle/SMT**



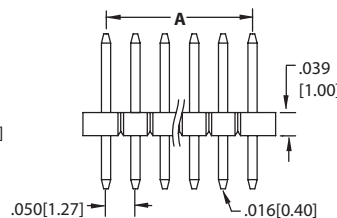
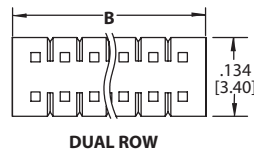
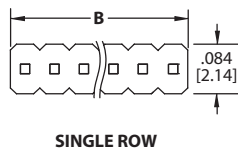
PART NUMBER CODING



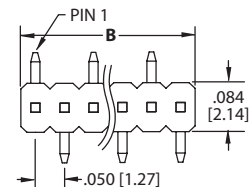
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

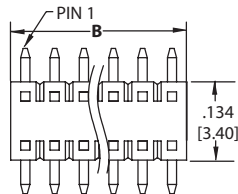
STRAIGHT (SHOWN) & RIGHT ANGLE



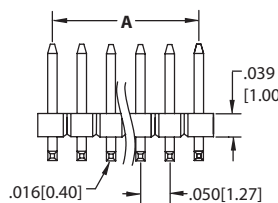
SURFACE MOUNT, PIN 1 LEFT, SINGLE ROW



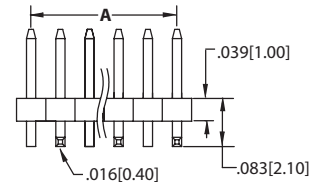
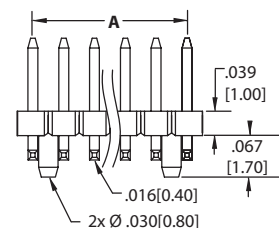
SURFACE MOUNT, DUAL ROW



WITHOUT GUIDE POST, (VWQS)



WITH GUIDE POST, (VWQP)



Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
01	01/02	.000	0.00	.050	1.27		
02	02/04	.050	1.27	.100	2.54		
03	03/06	.100	2.54	.150	3.81	.050	1.27
04	04/08	.150	3.81	.200	5.08	.100	2.54
05	05/10	.200	5.08	.250	6.35	.150	3.81
06	06/12	.250	6.35	.300	7.62	.200	5.08
07	07/14	.300	7.62	.350	8.89	.250	6.35
08	08/16	.350	8.89	.400	10.16	.300	7.62
09	09/18	.400	10.16	.450	11.43	.350	8.89
10	10/20	.450	11.43	.500	12.70	.400	10.16
11	11/22	.500	12.70	.550	13.97	.450	11.43
12	12/24	.550	13.97	.600	15.24	.500	12.70
13	13/26	.600	15.24	.650	16.51	.550	13.97
14	14/28	.650	16.51	.700	17.78	.600	15.24
15	15/30	.700	17.78	.750	19.05	.650	16.51
16	16/32	.750	19.05	.800	20.32	.700	17.78
17	17/34	.800	20.32	.850	21.59	.750	19.05
18	18/36	.850	21.59	.900	22.86	.800	20.32
19	19/38	.900	22.86	.950	24.13	.850	21.59
20	20/40	.950	24.13	1.000	25.40	.900	22.86
21	21/42	1.000	25.40	1.050	26.67	.950	24.13
22	22/44	1.050	26.67	1.100	27.94	1.000	25.40
23	23/46	1.100	27.94	1.150	29.21	1.050	26.67
24	24/48	1.150	29.21	1.200	30.48	1.100	27.94
25	25/50	1.200	30.48	1.250	31.75	1.150	29.21

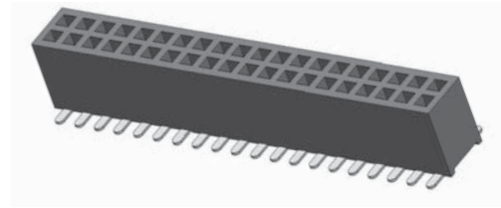
Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
26	26/52	1.250	31.75	1.300	33.02	1.200	30.48
27	27/54	1.300	33.02	1.350	34.29	1.250	31.75
28	28/56	1.350	34.29	1.400	35.56	1.300	33.02
29	29/58	1.400	35.56	1.450	36.83	1.350	34.29
30	30/60	1.450	36.83	1.500	38.10	1.400	35.56
31	31/62	1.500	38.10	1.550	39.37	1.450	36.83
32	32/64	1.550	39.37	1.600	40.64	1.500	38.10
33	33/66	1.600	40.64	1.650	41.91	1.550	39.37
34	34/68	1.650	41.91	1.700	43.18	1.600	40.64
35	35/70	1.700	43.18	1.750	44.45	1.650	41.91
36	36/72	1.750	44.45	1.800	45.72	1.700	43.18
37	37/74	1.800	45.72	1.850	46.99	1.750	44.45
38	38/76	1.850	46.99	1.900	48.26	1.800	45.72
39	39/78	1.900	48.26	1.950	49.53	1.850	46.99
40	40/80	1.950	49.53	2.000	50.80	1.900	48.26
41	41/82	2.000	50.80	2.050	52.07	1.950	49.53
42	42/84	2.050	52.07	2.100	53.34	2.000	50.80
43	43/86	2.100	53.34	2.150	54.61	2.050	52.07
44	44/88	2.150	54.61	2.200	55.88	2.100	53.34
45	45/90	2.200	55.88	2.250	57.15	2.150	54.61
46	46/92	2.250	57.15	2.300	58.42	2.200	55.88
47	47/94	2.300	58.42	2.350	59.69	2.250	57.15
48	48/96	2.350	59.69	2.400	60.96	2.300	58.42
49	49/98	2.400	60.96	2.450	62.23	2.350	59.69
50	50/100	2.450	62.23	2.500	63.50	2.400	60.96



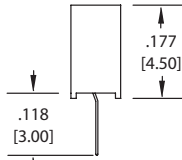
**.050" [1.27mm] Contact Centers, Female Header,
Dip Solder/Right Angle/SMT**

SPECIFICATIONS

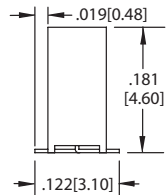
- Insulator Material: Nylon 9T
- Contact Material: Brass
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O



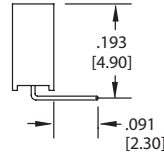
TERMINATION TYPE



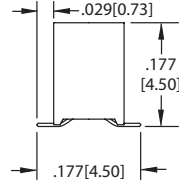
**SINGLE ROW,
STRAIGHT
(NFFN)**



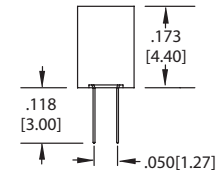
**SINGLE ROW,
SMT
(NFSC)**



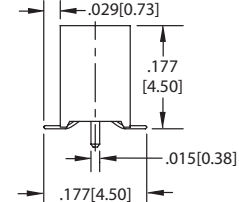
**SINGLE ROW,
RIGHT ANGLE
(NGCN)**



**DUAL ROW,
SMT Without Guide Posts
(NFSS)**

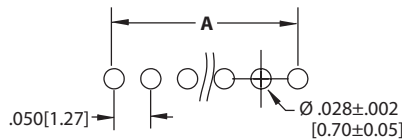


**DUAL ROW,
STRAIGHT
(CFFN)**

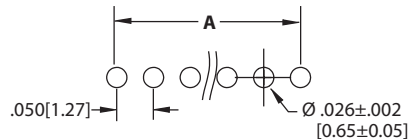


**DUAL ROW,
SMT With Guide Posts
(NFSP)**

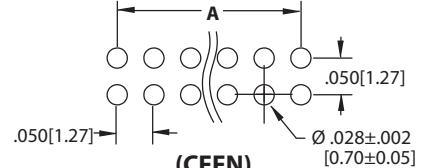
PCB LAYOUT



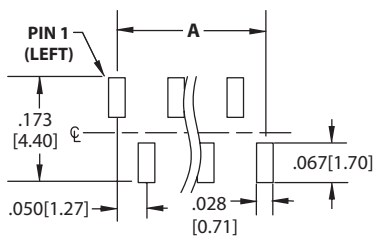
(NFFN)



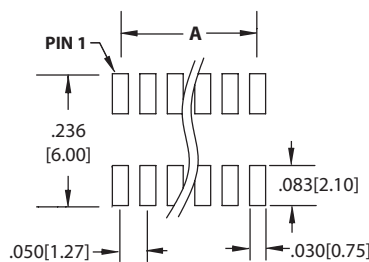
(NGCN)



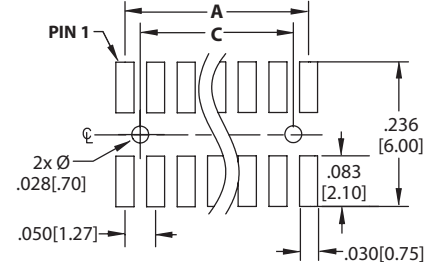
(CFFN)



(NFSC)

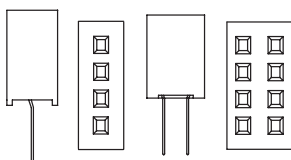


(NFSS)

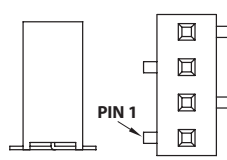


(NFSP)

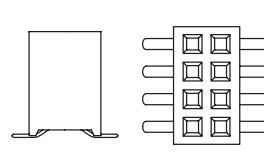
MOUNTING STYLE



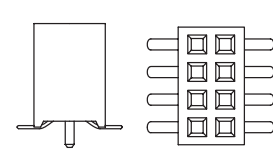
**SINGLE & DUAL ROW
NO MOUNTING
(N)**



**SINGLE ROW
SMT, Pin 1 Left
(C)**



**DUAL ROW
SMT Without Guide Post
(S)**

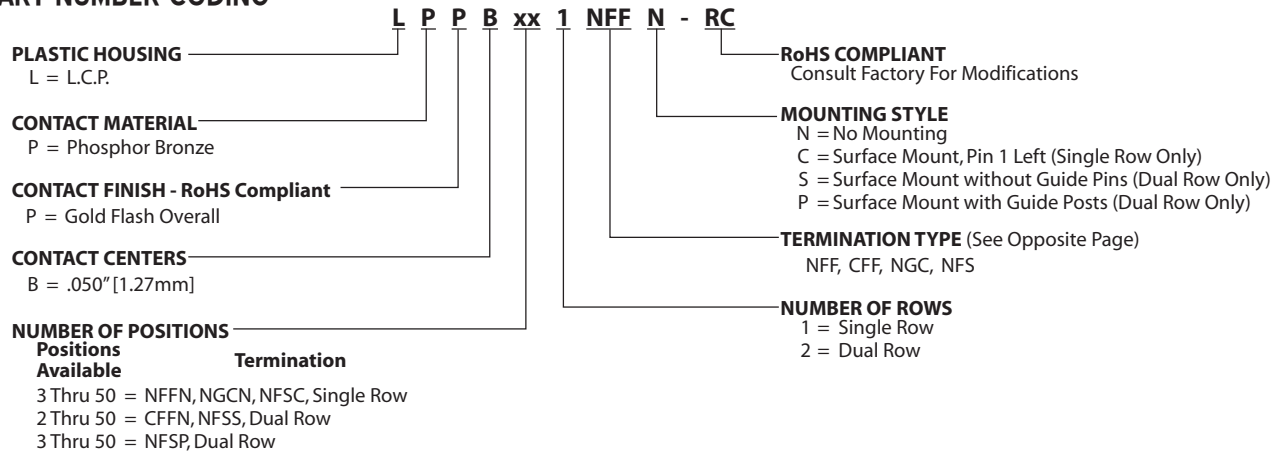


**DUAL ROW
SMT With Guide Post
(P)**

**.050" [1.27mm] Contact Centers, Female Header,
Dip Solder/Right Angle/SMT**

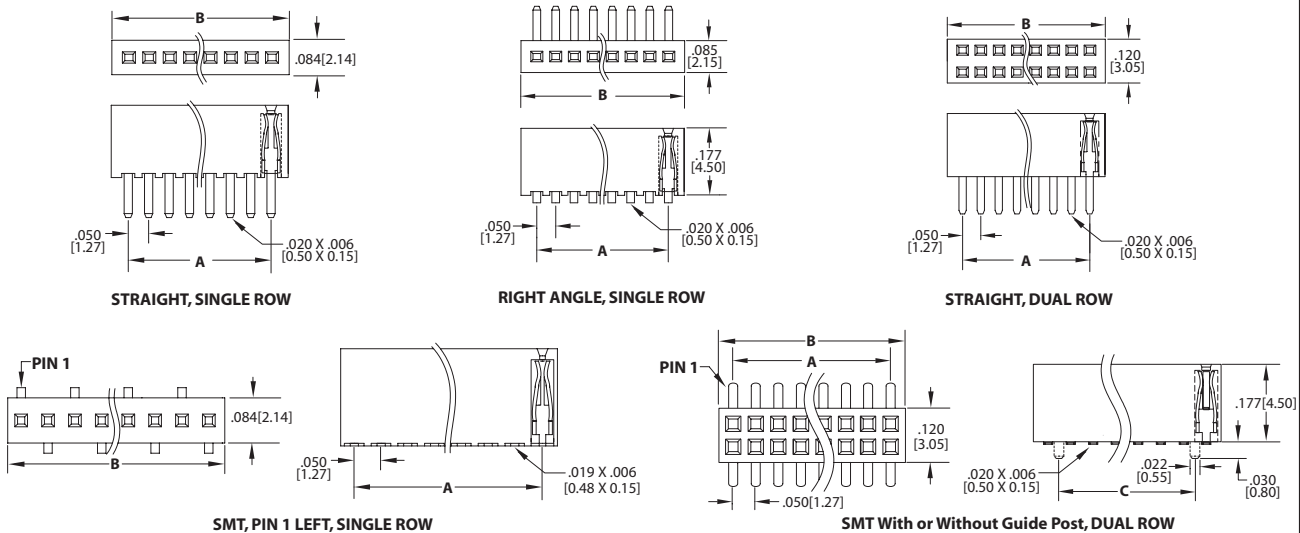


PART NUMBER CODING



DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
02	2/4	.050	1.27	.115	2.92		
03	3/6	.100	2.54	.165	4.19	.050	1.27
04	4/8	.150	3.81	.215	5.46	.100	2.54
05	5/10	.200	5.08	.265	6.73	.150	3.81
06	6/12	.250	6.35	.315	8.00	.200	5.08
07	7/14	.300	7.62	.365	9.27	.250	6.35
08	8/16	.350	8.89	.415	10.54	.300	7.62
09	9/18	.400	10.16	.465	11.81	.350	8.89
10	10/20	.450	11.43	.515	13.08	.400	10.16
11	11/22	.500	12.70	.565	14.35	.450	11.43
12	12/24	.550	13.97	.615	15.62	.500	12.70
13	13/26	.600	15.24	.665	16.89	.550	13.97
14	14/28	.650	16.51	.715	18.16	.600	15.24
15	15/30	.700	17.78	.765	19.43	.650	16.51
16	16/32	.750	19.05	.815	20.70	.700	17.78
17	17/34	.800	20.32	.865	21.97	.750	19.05
18	18/36	.850	21.59	.915	23.24	.800	20.32
19	19/38	.900	22.86	.965	24.51	.850	21.59
20	20/40	.950	24.13	1.015	25.78	.900	22.86
21	21/42	1.000	25.40	1.065	27.05	.950	24.13
22	22/44	1.050	26.67	1.115	28.32	1.000	25.40
23	23/46	1.100	27.94	1.165	29.59	1.050	26.67
24	24/48	1.150	29.21	1.215	30.86	1.100	27.94
25	25/50	1.200	30.48	1.265	32.13	1.150	29.21

Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
26	26/52	1.250	31.75	1.315	33.40	1.200	30.48
27	27/54	1.300	33.02	1.365	34.67	1.250	31.75
28	28/56	1.350	34.29	1.415	35.94	1.300	33.02
29	29/58	1.400	35.56	1.465	37.21	1.350	34.29
30	30/60	1.450	36.83	1.515	38.48	1.400	35.56
31	31/62	1.500	38.10	1.565	39.75	1.450	36.83
32	32/64	1.550	39.37	1.615	41.02	1.500	38.10
33	33/66	1.600	40.64	1.665	42.29	1.550	39.37
34	34/68	1.650	41.91	1.715	43.56	1.600	40.64
35	35/70	1.700	43.18	1.765	44.83	1.650	41.91
36	36/72	1.750	44.45	1.815	46.10	1.700	43.18
37	37/74	1.800	45.72	1.865	47.37	1.750	44.45
38	38/76	1.850	46.99	1.915	48.64	1.800	45.70
39	39/78	1.900	48.26	1.965	49.91	1.850	46.99
40	40/80	1.950	49.53	2.015	51.18	1.900	48.26
41	41/82	2.000	50.80	2.065	52.45	1.950	49.53
42	42/84	2.050	52.07	2.115	53.72	2.000	50.80
43	43/86	2.100	53.34	2.165	54.99	2.050	52.07
44	44/88	2.150	54.61	2.215	56.26	2.100	53.34
45	45/90	2.200	55.88	2.265	57.53	2.150	54.61
46	46/92	2.250	57.15	2.315	58.80	2.200	55.88
47	47/94	2.300	58.42	2.365	60.07	2.250	57.15
48	48/96	2.350	59.69	2.415	61.34	2.300	58.42
49	49/98	2.400	60.96	2.465	62.61	2.350	59.69
50	50/100	2.450	62.23	2.515	63.88	2.400	60.96



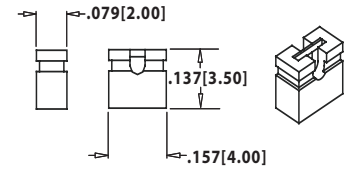
.079"[2mm] Contact Centers, Male Header
Dip Solder/Right Angle/SMT

SPECIFICATIONS

- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Black Thermoplastic Polyester/Nylon 6-T
- Contact Material: Brass

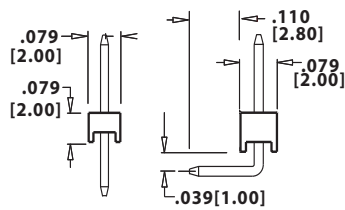


JUMPERS

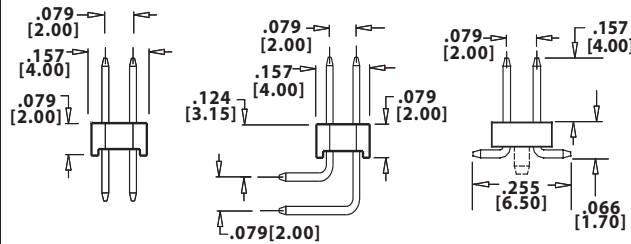


PART NUMBER:
SPN02SYBN-RC (GOLD FLASH)
STN02SYBN-RC (TIN PLATE)

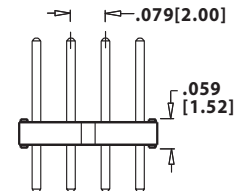
READOUT



SINGLE (1)

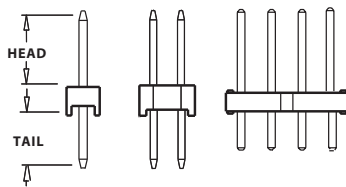


DUAL (2)

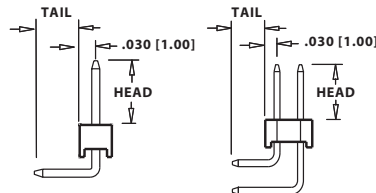


QUAD (4)

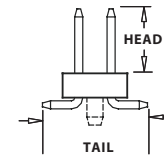
TERMINATION TYPE



STRAIGHT



RIGHT ANGLE



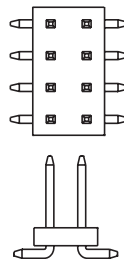
SMT

P/N CODE	ROWS	TERM	HEAD	TAIL	P/N CODE	ROWS	TERM	HEAD	TAIL	P/N CODE	ROWS	TERM	HEAD	TAIL
PAE	1	STRAIGHT	.157"[4.00]	.110"[2.80]	PAR	1	RIGHT ANGLE	.157"[4.00]	.110"[2.80]					
PAE	2	STRAIGHT	.157"[4.00]	.110"[2.80]	PAR	2	RIGHT ANGLE	.157"[4.00]	.110"[2.80]	MAM	2	SMT	.157"[4.00]	.255"[6.50]
RCC	4	STRAIGHT	.173"[4.40]	.094"[2.40]										

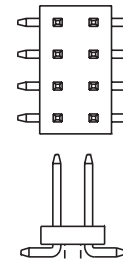
MOUNTING STYLE



No Mounting-
Default Standard (N)



Two Row SMT,
Without Guide Post (S)

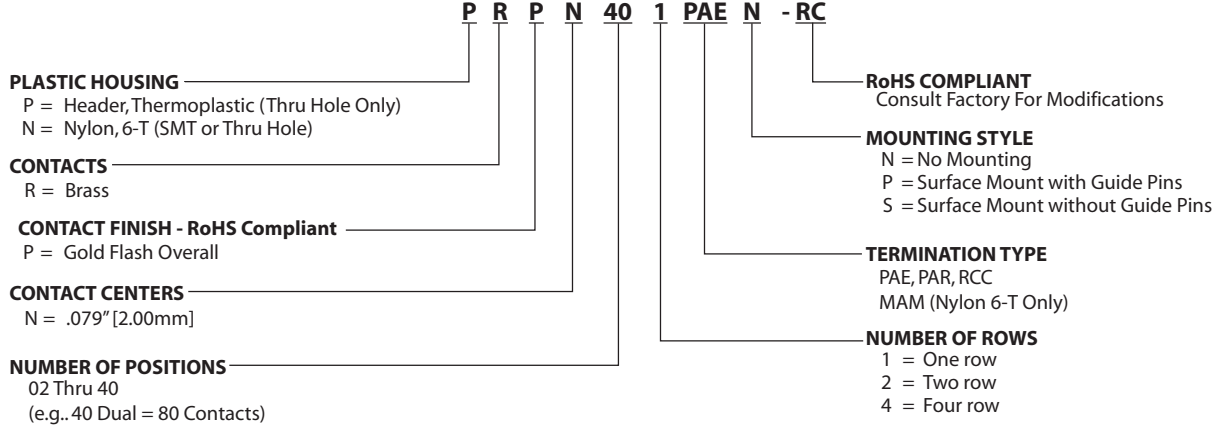


Two Row SMT,
With Guide Post (P)

.079"[2mm] Contact Centers, Male Header
Dip Solder/Right Angle/SMT

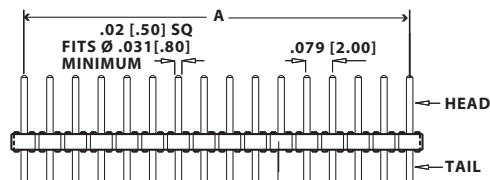


PART NUMBER CODING

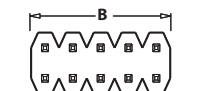
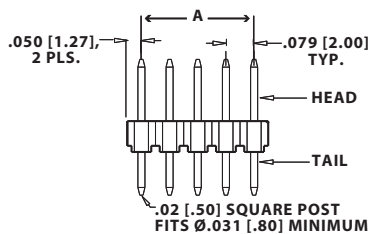


DIMENSIONS

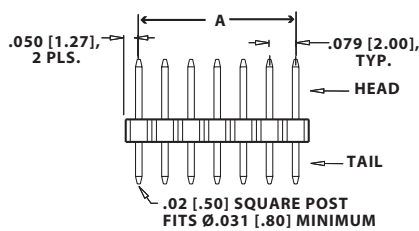
Dimensions in [] are in millimeters, all others are in inches.



**QUAD READOUT,
STRAIGHT TAIL SHOWN**



**DUAL READOUT,
STRAIGHT TAIL SHOWN**



**SINGLE READOUT,
STRAIGHT TAIL SHOWN**

PART NUMBER	NUMBER OF CONTACTS SINGLE/ DUAL/QUAD	DIMENSION A		DIMENSION B	
		INCHES	[MM]	INCHES	[MM]
_ RPN02 ___ N-RC	02/04	0.079	2.00	0.157	4.00
_ RPN03 ___ N-RC	03/06	0.157	4.00	0.236	6.00
_ RPN04 ___ N-RC	04/08	0.236	6.00	0.315	8.00
_ RPN05 ___ N-RC	05/10	0.315	8.00	0.394	10.00
_ RPN06 ___ N-RC	06/12/24	0.394	10.00	0.472	12.00
_ RPN07 ___ N-RC	07/14	0.472	12.00	0.551	14.00
_ RPN08 ___ N-RC	08/16	0.551	14.00	0.630	16.00
_ RPN09 ___ N-RC	09/18	0.630	16.00	0.709	18.00
_ RPN10 ___ N-RC	10/20/40	0.709	18.00	0.787	20.00
_ RPN11 ___ N-RC	11/22	0.787	20.00	0.866	22.00
_ RPN12 ___ N-RC	12/24/44	0.866	22.00	0.945	24.00
_ RPN13 ___ N-RC	13/26	0.945	24.00	1.024	26.00
_ RPN14 ___ N-RC	14/28	1.024	26.00	1.102	28.00
_ RPN15 ___ N-RC	15/30/60	1.102	28.00	1.181	30.00
_ RPN16 ___ N-RC	16/32	1.181	30.00	1.260	32.00
_ RPN17 ___ N-RC	17/34	1.260	32.00	1.339	34.00
_ RPN18 ___ N-RC	18/36/72	1.339	34.00	1.417	36.00
_ RPN19 ___ N-RC	19/38	1.417	36.00	1.496	38.00
_ RPN20 ___ N-RC	20/40	1.496	38.00	1.575	40.00
_ RPN21 ___ N-RC	21/42/84	1.575	40.00	1.654	42.00
_ RPN22 ___ N-RC	22/44	1.654	42.00	1.732	44.00
_ RPN23 ___ N-RC	23/46	1.732	44.00	1.811	46.00
_ RPN24 ___ N-RC	24/48/96	1.811	46.00	1.890	48.00
_ RPN25 ___ N-RC	25/50	1.890	48.00	1.969	50.00
_ RPN26 ___ N-RC	26/52	1.969	50.00	2.047	52.00
_ RPN27 ___ N-RC	27/54	2.047	52.00	2.126	54.00
_ RPN28 ___ N-RC	28/56	2.126	54.00	2.205	56.00
_ RPN29 ___ N-RC	29/58	2.205	56.00	2.283	58.00
_ RPN30 ___ N-RC	30/60/120	2.283	58.00	2.362	60.00
_ RPN31 ___ N-RC	31/62	2.362	60.00	2.441	62.00
_ RPN32 ___ N-RC	32/64	2.441	62.00	2.520	64.00
_ RPN33 ___ N-RC	33/66	2.520	64.00	2.598	66.00
_ RPN34 ___ N-RC	34/68	2.598	66.00	2.677	68.00
_ RPN35 ___ N-RC	35/70	2.677	68.00	2.756	70.00
_ RPN36 ___ N-RC	36/72	2.756	70.00	2.835	72.00
_ RPN37 ___ N-RC	37/74	2.835	72.00	2.913	74.00
_ RPN38 ___ N-RC	38/76	2.913	74.00	2.992	76.00
_ RPN39 ___ N-RC	39/78	2.992	76.00	3.071	78.00
_ RPN40 ___ N-RC	40/80	3.071	78.00	3.150	80.00



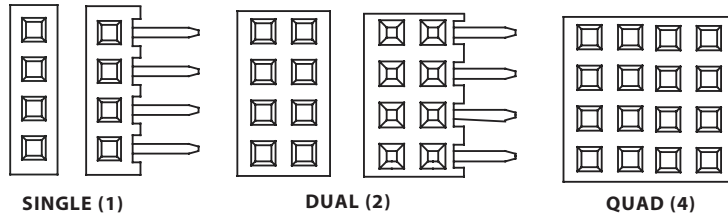
.079"[2mm] Contact Centers, Female Header Dip Solder/Right Angle/SMT

SPECIFICATIONS

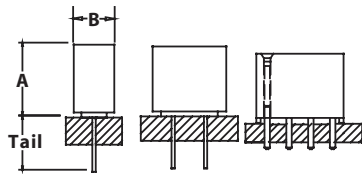
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Black Thermoplastic Polyester/Nylon 6-T
- Contact Material: Phosphor Bronze



READOUT

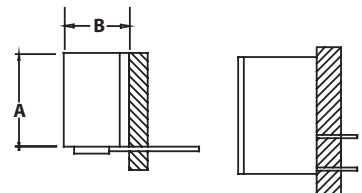


TERMINATION TYPE



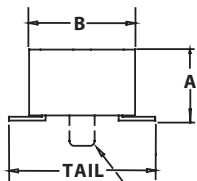
STRAIGHT

P/N CODE	ROWS	TERM	A	B	TAIL
BFC	1	STRAIGHT	.170 [4.30]	.094 [2.40]	.094 [2.40]
AFC	2	STRAIGHT	.170 [4.30]	.157 [4.00]	.094 [2.40]
AFE	2	STRAIGHT	1.70 [4.30]	.157 [4.00]	.110 [2.80]
EFC	4	STRAIGHT	.248 [6.30]	.315 [8.00]	.094 [2.40]



RIGHT ANGLE

P/N CODE	ROWS	TERM	A	B	TAIL
FGG	1	RIGHT ANGLE	.169 [4.30]	.110 [2.80]	.122 [3.10]
FJF	2	RIGHT ANGLE	.285 [7.20]	.191 [4.85]	.118 [3.00]



SMT

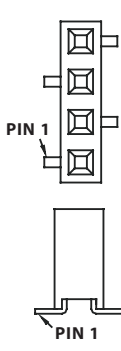
P/N CODE	ROWS	TERM	A	B	TAIL
BFL	1	SMT	.181 [4.60]	.094 [2.40]	.157 [4.00]
GFN	2	SMT	.110 [2.80]	.165 [4.20]	.228 [5.80]
GHN	Replaced by GFN				
FFK	2	SMT	.173 [4.40]	.157 [4.00]	.228 [5.80]

Refer to Mounting Style

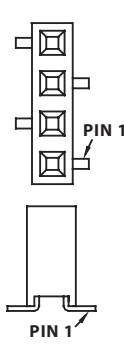
MOUNTING STYLE



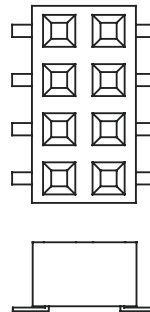
No Mounting-
Standard (N)



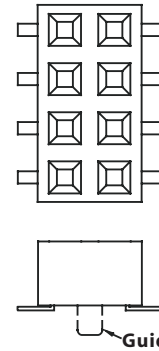
One Row SMT,
Pin 1 Left (C)



One Row SMT,
Pin 1 Right (D)



Two Row SMT,
Without Guide Posts (S)



Two Row SMT,
With Guide Post (P)

**.079"[2mm] Contact Centers, Female Header
Dip Solder/Right Angle/SMT**



PART NUMBER CODING

PP **P** **N** **40** **1** **BFC** **N** **-RC**

PLASTIC HOUSING
PP = Thermoplastic/Phosphor Bronze (Thru Hole Only)
NP = Nylon 6-T/Phosphor Bronze (SMT or Thru Hole)

CONTACT FINISH - RoHS Compliant
Contact Termination
P = Gold Flash Gold Flash (For 1 and 2 Row)
R = .000020 GOLD .00010 TIN (For 4 row)

CONTACT CENTERS
N = .079"[2.00mm]

NUMBER OF POSITIONS
01 to 40
(e.g. 40 Dual = 80 Contacts)

NUMBER OF ROWS (Opposite Page)
1 = One Row
2 = Two Row
4 = Four Row

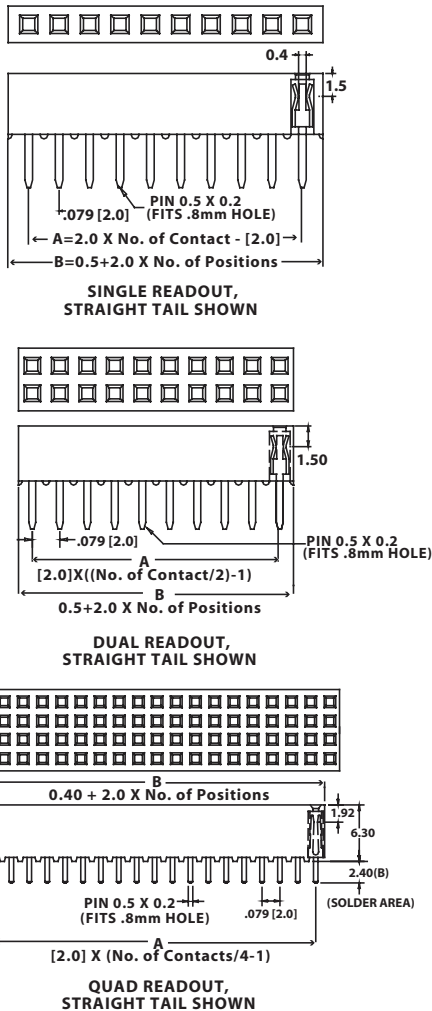
RoHS COMPLIANT
Consult Factory For Modifications

MOUNTING STYLE
N = No Mounting
C = SMT, Single row female, pin 1 Left
D = SMT, Single row female, pin 1 Right
P = Surface mount with guide pins
S = Surface mount without guide pins

TERMINATION TYPE (Opposite Page)
BFC = Thru Hole Top Entry
AFC = Thru Hole Top Entry
AFE = Thru Hole Top Entry/Closed Bottom
EFC = Thru Hole Top Entry
FGG = R/A Top Entry
FJF = R/A Top Entry
BFL = SMT Bottom Entry (Nylon 6-T only)
FFK = SMT Bottom Entry (Nylon 6-T only)
GFN = SMT Top/Bottom Entry (Nylon 6-T only)
GHN = SMT Replaced by GFN

DIMENSIONS

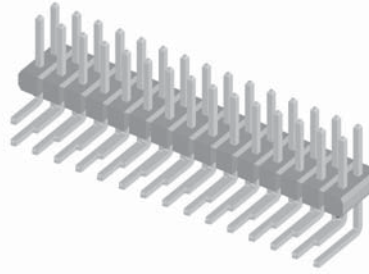
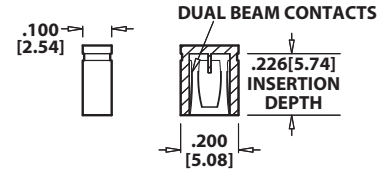
Dimensions in [] are in millimeters, all others are in inches.



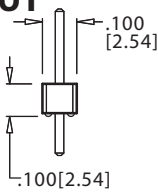
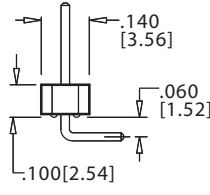
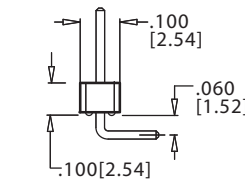
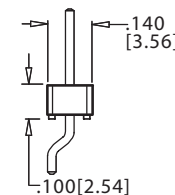
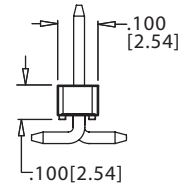
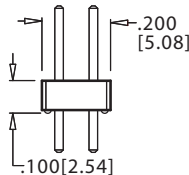
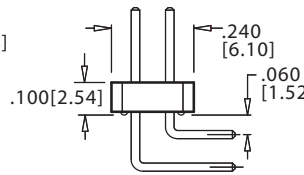
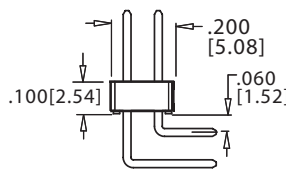
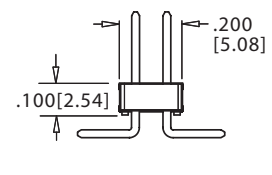
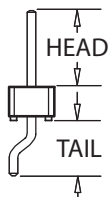
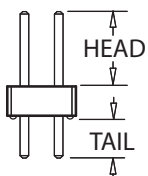
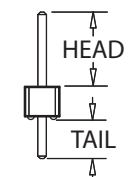
PART NUMBER	NUMBER OF CONTACTS SINGLE/DUAL/ QUAD	CENTER TO CENTER LENGTH [A]		OVERALL LENGTH [B]	
		INCHES	[MM]	INCHES	[MM]
PPN01 N-RC	01/02			0.079	2.00
PPN02 N-RC	02/04	0.079	2.00	0.157	4.00
PPN03 N-RC	03/06	0.157	4.00	0.236	6.00
PPN04 N-RC	04/08	0.236	6.00	0.315	8.00
PPN05 N-RC	05/10	0.315	8.00	0.394	10.00
PPN06 N-RC	06/12/24	0.394	10.00	0.472	12.00
PPN07 N-RC	07/14	0.472	12.00	0.551	14.00
PPN08 N-RC	08/16	0.551	14.00	0.630	16.00
PPN09 N-RC	09/18	0.630	16.00	0.709	18.00
PPN10 N-RC	10/20/40	0.709	18.00	0.787	20.00
PPN11 N-RC	11/22	0.787	20.00	0.866	22.00
PPN12 N-RC	12/24/44	0.866	22.00	0.945	24.00
PPN13 N-RC	13/26	0.945	24.00	1.024	26.00
PPN14 N-RC	14/28	1.024	26.00	1.102	28.00
PPN15 N-RC	15/30/60	1.102	28.00	1.181	30.00
PPN16 N-RC	16/32	1.181	30.00	1.260	32.00
PPN17 N-RC	17/34	1.260	32.00	1.339	34.00
PPN18 N-RC	18/36	1.339	34.00	1.417	36.00
PPN19 N-RC	19/38	1.417	36.00	1.496	38.00
PPN20 N-RC	20/40	1.496	38.00	1.575	40.00
PPN21 N-RC	21/42/84	1.575	40.00	1.654	42.00
PPN22 N-RC	22/44	1.654	42.00	1.732	44.00
PPN23 N-RC	23/46	1.732	44.00	1.811	46.00
PPN24 N-RC	24/48/96	1.811	46.00	1.890	48.00
PPN25 N-RC	25/50	1.890	48.00	1.969	50.00
PPN26 N-RC	26/52	1.969	50.00	2.047	52.00
PPN27 N-RC	27/54	2.047	52.00	2.126	54.00
PPN28 N-RC	28/56	2.126	54.00	2.205	56.00
PPN29 N-RC	29/58	2.205	56.00	2.283	58.00
PPN30 N-RC	30/60/120	2.283	58.00	2.362	60.00
PPN31 N-RC	31/62	2.362	60.00	2.441	62.00
PPN32 N-RC	32/64	2.441	62.00	2.520	64.00
PPN33 N-RC	33/66	2.520	64.00	2.598	66.00
PPN34 N-RC	34/68	2.598	66.00	2.677	68.00
PPN35 N-RC	35/70	2.677	68.00	2.756	70.00
PPN36 N-RC	36/72	2.756	70.00	2.835	72.00
PPN37 N-RC	37/74	2.835	72.00	2.913	74.00
PPN38 N-RC	38/76	2.913	74.00	2.992	76.00
PPN39 N-RC	39/78	2.992	76.00	3.071	78.00
PPN40 N-RC	40/80	3.071	78.00	3.150	80.00

**.100"[2.54mm] Contact Centers, Male Breakaway Header
Dip Solder/Right Angle/SMT****SPECIFICATIONS**

- 3 amp current rating per contact
- UL Flammability Rating: 94V-0
- Insulator: Polyester, PA9T
- Contact Material: Copper Alloy

**JUMPERS**

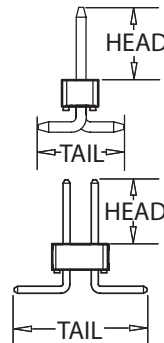
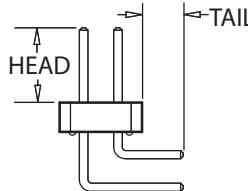
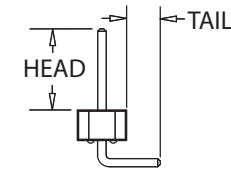
PART NUMBER:
STC02SYAN (TIN PLATE)
SPC02SYAN (GOLD FLASH)
SSC02SYAN (0.000010" GOLD PLATE)

READOUT**SINGLE ROW (S)****STRAIGHT****RIGHT ANGLE (Standard)****RIGHT ANGLE (Narrow)
-M71 Modification Code****SMT, -M89
Modification Code****SMT, -M30
Modification Code****DUAL ROW (D)****STRAIGHT****RIGHT ANGLE (Standard)****RIGHT ANGLE (Narrow)
-M71 Modification Code****SMT, -M30
Modification Code****TERMINATION TYPE****STRAIGHT TERMINATIONS**

P/N CODE	HEAD DIMENSION	TAIL DIMENSION
AA	.230 [5.84]	.120 [3.05]
AB	.230 [5.84]	.230 [5.84]
AC	.230 [5.84]	.320 [8.13]
AD	.230 [5.84]	.420 [10.67]
AE	.230 [5.84]	.520 [13.21]
AF	.230 [5.84]	.620 [15.75]
AG	.230 [5.84]	.720 [18.29]
AH	.230 [5.84]	.820 [20.83]
FA	.318 [8.08]	.120 [3.05]
FB	.318 [8.08]	.220 [5.59]
FC	.318 [8.08]	.320 [8.13]
FD	.318 [8.08]	.420 [10.67]
FE	.318 [8.08]	.520 [13.21]
ZA	.120 [3.05]	.120 [3.05]
ZC	.120 [3.05]	.260 [6.60]
ZD	.120 [3.05]	.610 [15.49]

**SMT TERMINATIONS,
Single Row with
-M89 Modification Code,
(‘G’ Material Only)**

P/N CODE	HEAD DIMENSION	TAIL DIMENSION
BS	.230 [5.84]	.180 [4.57]
GS	.318 [8.08]	.180 [4.57]

**RIGHT ANGLE BEND
TERMINATIONS**

P/N CODE	HEAD DIMENSION	TAIL DIMENSION	-M71 TAIL DIMENSION
BA	.230 [5.84]	.100 [2.54]	.120 [3.05]
BB	.230 [5.84]	.200 [5.08]	.220 [5.59]
BC	.230 [5.84]	.300 [7.62]	.320 [8.13]
BD	.230 [5.84]	.400 [10.16]	.420 [10.67]
BE	.230 [5.84]	.500 [12.70]	.520 [13.21]
BF**	.230 [5.84]	.600 [15.24]	
BG**	.230 [5.84]	.700 [17.78]	
GA	.318 [8.08]	.100 [2.54]	.120 [3.05]
GB	.318 [8.08]	.200 [5.08]	.220 [5.59]
GC**	.318 [8.08]	.300 [7.62]	
GD**	.318 [8.08]	.400 [10.16]	

**Consult Factory for availability in Dual Readout.

**SMT TERMINATIONS,
Single or Dual Row with
-M30 Modification Code,
(‘G’ Material Only)**

P/N CODE	HEAD DIMENSION	SINGLE ROW TAIL DIMENSION	DUAL ROW TAIL DIMENSION
AB	.230 [5.84]	.320 [8.13]	.420 [10.67]
FB	.318 [8.08]	.300 [7.62]	.400 [10.16]

.100"[2.54mm] Contact Centers, Male Breakaway Header Dip Solder/Right Angle/SMT

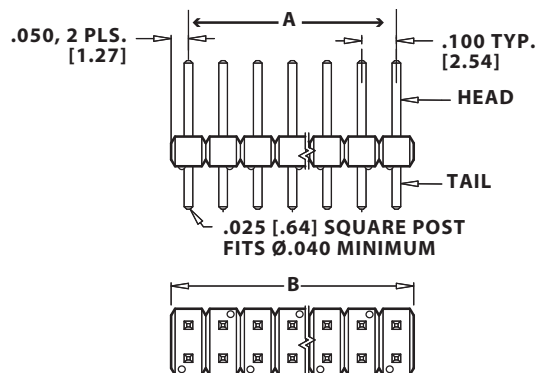
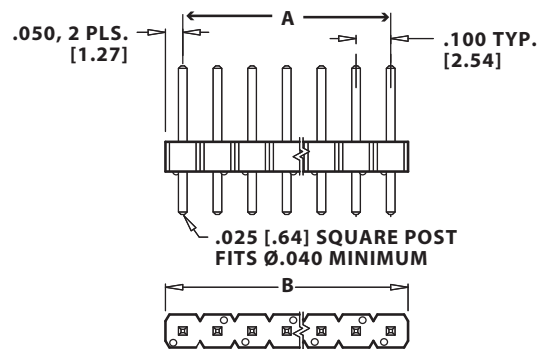


PART NUMBER CODING

SERIES		P	B	C	36	D	AA	N	- Mxxx
P = PBT/Phosphor Bronze									
Operating Temperature: -65°C to + 125°C									
Processing Temperature: 260° for 10 sec. Max.									
G = PA9T/Phosphor Bronze									
Operating Temperature: -65°C to + 125°C									
Processing Temperature: 260° for 120 sec. Max.									
CONTACT FINISH - RoHS Compliant									
All platings are Lead Free and have .000050" Nickel underplate									
Contact Surface		Termination							
B = .000010" Gold		.000100" Pure Tin, Matte							
C = .000030" Gold		.000100" Pure Tin, Matte							
Contact Surface		Overall Plating							
E = .000010" Pure Tin, Matte		.000100" Pure Tin, Matte							
CONTACT CENTERS									
C = .100" [2.54mm]									
NUMBER OF POSITIONS									
01 Thru 36 (eg. 32 Dual = 64 Contacts)									
		MODIFICATION CODE (Consult Factory)							
		OMIT FOR STANDARD							
		-M30 = SMT ('G' Material Only)							
		-M89 = SMT ('G' Material Only)							
		-M71 = Narrow Body (Right Angle Only)							
		MOUNTING STYLE							
		N =No Mounting							
		R =Retent Lead (Consult Factory)							
		TERMINATION TYPE (Opposite Page)							
		Straight = AA, AB, AC, AD, AE, AF, AG, AH, FA, FB, FC, FD, FE, ZA, ZC, ZD							
		Right Angle = BA, BB, BC, BD, BE, BF, BG, GA, GB, GC, GD, GS							
		Right Angle with -M71 Modification Code = BA, BB, BC, BD, BE, GA, GB							
		SMT with -M89 Modification Code = BS, GS ('G' Material Only)							
		SMT with -M30 Modification Code = AB, FB ('G' Material Only)							
		READOUT (Opposite Page)							
		S = Single							
		D = Dual							

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



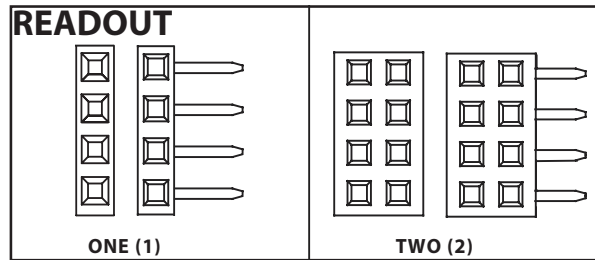
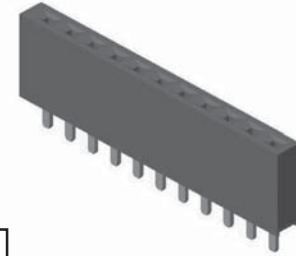
PART NUMBER	NUMBER OF CONTACTS SINGLE/DUAL	A		B	
		Inches	[MM]	Inches	[MM]
P_C01__N	01/02	N/A	N/A	0.100	2.54
P_C02__N	02/04	0.100	2.54	0.200	5.08
P_C03__N	03/06	0.200	5.08	0.300	7.62
P_C04__N	04/08	0.300	7.62	0.400	10.16
P_C05__N	05/10	0.400	10.16	0.500	12.70
P_C06__N	06/12	0.500	12.70	0.600	15.24
P_C07__N	07/14	0.600	15.24	0.700	17.78
P_C08__N	08/16	0.700	17.78	0.800	20.32
P_C09__N	09/18	0.800	20.32	0.900	22.86
P_C10__N	10/20	0.900	22.86	1.000	25.40
P_C11__N	11/22	1.000	25.40	1.100	27.94
P_C12__N	12/24	1.100	27.94	1.200	30.48
P_C13__N	13/26	1.200	30.48	1.300	33.02
P_C14__N	14/28	1.300	33.02	1.400	35.56
P_C15__N	15/30	1.400	35.56	1.500	38.10
P_C16__N	16/32	1.500	38.10	1.600	40.64
P_C17__N	17/34	1.600	40.64	1.700	43.18
P_C18__N	18/36	1.700	43.18	1.800	45.72
P_C19__N	19/38	1.800	45.72	1.900	48.26
P_C20__N	20/40	1.900	48.26	2.000	50.80
P_C21__N	21/42	2.000	50.80	2.100	53.34
P_C22__N	22/44	2.100	53.34	2.200	55.88
P_C23__N	23/46	2.200	55.88	2.300	58.42
P_C24__N	24/48	2.300	58.42	2.400	60.96
P_C25__N	25/50	2.400	60.96	2.500	63.50
P_C26__N	26/52	2.500	63.50	2.600	66.04
P_C27__N	27/54	2.600	66.04	2.700	68.58
P_C28__N	28/56	2.700	68.58	2.800	71.12
P_C29__N	29/58	2.800	71.12	2.900	73.66
P_C30__N	30/60	2.900	73.66	3.000	76.20
P_C31__N	31/62	3.000	76.20	3.100	78.74
P_C32__N	32/64	3.100	78.74	3.200	81.28
P_C33__N	33/66	3.200	81.28	3.300	83.82
P_C34__N	34/68	3.300	83.82	3.400	86.36
P_C35__N	35/70	3.400	86.36	3.500	88.90
P_C36__N	36/72	3.500	88.90	3.600	91.44



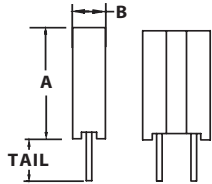
.100"[2.54mm] Contact Centers, Female Header Dip Solder/Right Angle/SMT

SPECIFICATIONS

- 3 amp current rating per contact
- UL Flammability Rating : 94V-O
- Insulator : Nylon 6-T/Polyester
- Contact Material : Phosphor Bronze

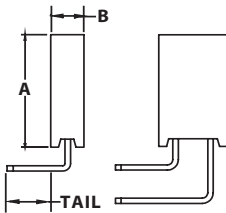


TERMINATION TYPE



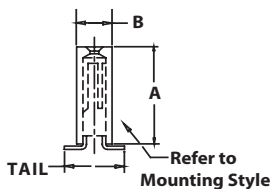
STRAIGHT

P/N CODE	ROWS	TERM	A	B	TAIL
LFB	1	STRAIGHT	.334 [8.50]	.094 [2.50]	.125 [3.20]
	2	STRAIGHT	.334 [8.50]	.197 [5.00]	.125 [3.20]



RIGHT ANGLE

P/N CODE	ROWS	TERM	A	B	TAIL
LGB	1	RIGHT ANGLE	.334 [8.50]	0.094 [2.40]	.125 [3.15]
LJB	2	RIGHT ANGLE	.334 [8.50]	0.197 [5.00]	.125 [3.15]



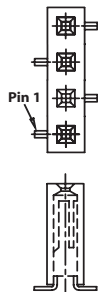
SMT

P/N CODE	ROWS	TERM	ENTRY	A	B	TAIL
KFX	1	SMT	TOP ENTRY	.279 [7.10]	.098 [2.50]	.169 [4.30]
KFM	2	SMT	TOP ENTRY	.279 [7.10]	.197 [5.00]	.265 [6.80]

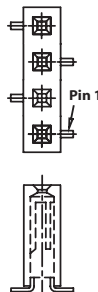
MOUNTING STYLE



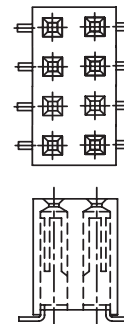
**No Mounting
Standard (N)**



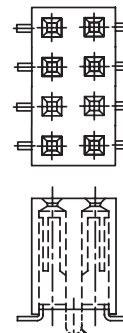
**One Row SMT,
Pin 1 Left (C)**



**One Row SMT,
Pin 1 Right (D)**



**Two Row SMT,
Without Guide Post (S)**

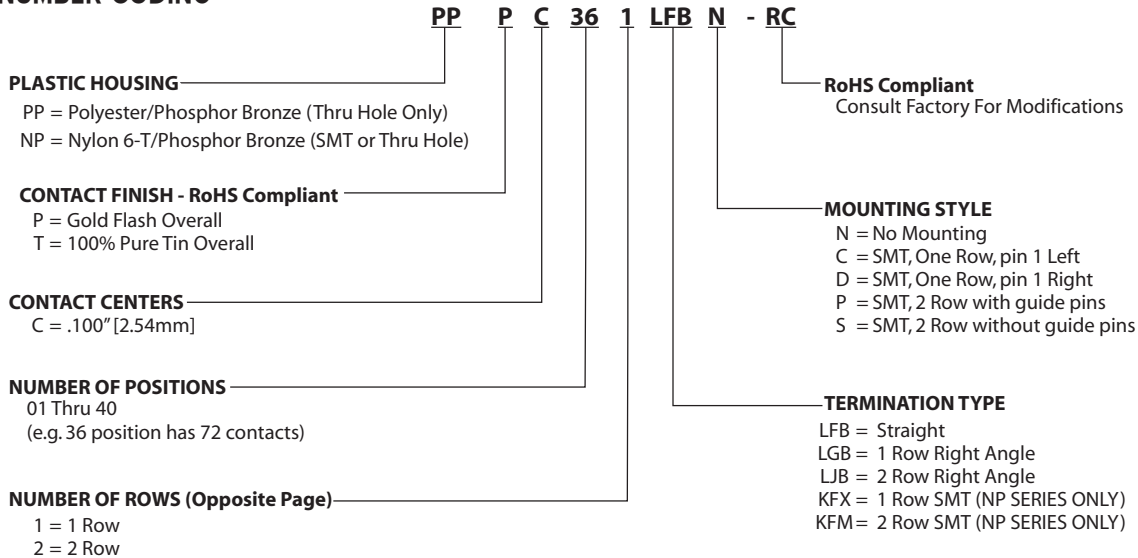


**Two Row SMT,
With Guide Post (P)**

**.100"[2.54mm] Contact Centers, Female Header
Dip Solder/Right Angle/SMT**

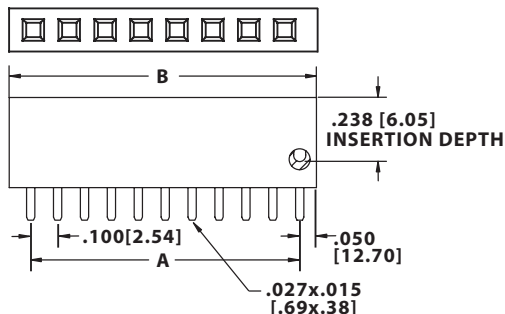


PART NUMBER CODING

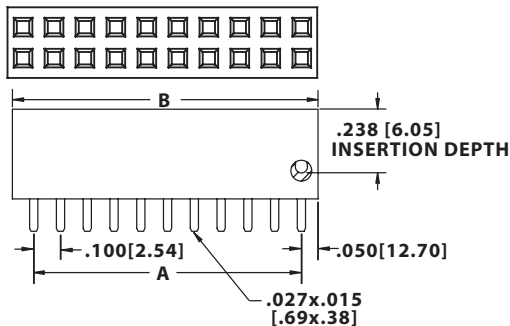


DIMENSIONS

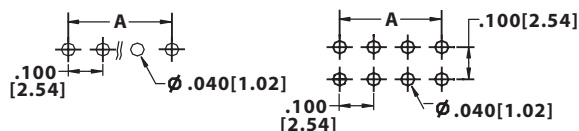
Dimensions in [] are in millimeters, all others are in inches.



**SINGLE READOUT,
STRAIGHT TAIL SHOWN**



**DUAL READOUT,
STRAIGHT TAIL SHOWN**



**Recommended P.C.Board
Hole Layout**

Number of Positions	Number of Contacts		Dimension A		Dimension B	
	1 Row	2 Row	Inches	[mm]	Inches	[mm]
01	1	2				
02	2	4	.100	2.54	.220	5.58
03	3	6	.200	5.08	.320	8.12
04	4	8	.300	7.62	.420	10.66
05	5	10	.400	10.16	.520	13.20
06	6	12	.500	12.70	.620	15.74
07	7	14	.600	15.24	.720	18.28
08	8	16	.700	17.78	.820	20.82
09	9	18	.800	20.32	.920	23.36
10	10	20	.900	22.86	1.020	25.90
11	11	22	1.000	25.40	1.120	28.44
12	12	24	1.100	27.94	1.220	30.98
13	13	26	1.200	30.48	1.320	33.52
14	14	28	1.300	33.02	1.420	36.06
15	15	30	1.400	35.56	1.520	38.60
16	16	32	1.500	38.10	1.620	41.14
17	17	34	1.600	40.64	1.720	43.68
18	18	36	1.700	43.18	1.820	46.22
19	19	38	1.800	45.72	1.920	48.76
20	20	40	1.900	48.26	2.020	51.30
21	21	42	2.000	50.80	2.120	53.84
22	22	44	2.100	53.34	2.220	56.38
23	23	46	2.200	55.88	2.320	58.92
24	24	48	2.300	58.42	2.420	61.46
25	25	50	2.400	60.96	2.520	64.00
26	26	52	2.500	63.50	2.620	66.54
27	27	54	2.600	66.04	2.720	69.08
28	28	56	2.700	68.58	2.820	71.62
29	29	58	2.800	71.12	2.920	74.16
30	30	60	2.900	73.66	3.020	76.70
31	31	62	3.000	76.20	3.120	79.24
32	32	64	3.100	78.74	3.220	81.78
33	33	66	3.200	81.28	3.320	84.32
34	34	68	3.300	83.82	3.420	86.86
35	35	70	3.400	86.36	3.520	89.40
36	36	72	3.500	88.90	3.620	91.94
37	37	74	3.600	91.44	3.720	94.48
38	38	76	3.700	93.98	3.820	97.02
39	39	78	3.800	96.52	3.920	99.56
40	40	80	3.900	99.06	4.020	102.10



GENERAL SPECIFICATIONS

RoHS COMPLIANT

RoHS
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 83 of this catalog.

MATERIALS

To determine Assembly Operating Temperature, take the lower of two temperatures

			Operating Temperature	Processing Temperature
Insulator:				
Standard	PBT, Valox*	Glass filled Thermoplastic Polyester	-65°C to +130°C	260°C / 10 Seconds
Special	PPS, Ryton*	Glass/Mineral filled Polyphenylene Sulfide, Green	-65°C to +220°C	260°C / 120 Seconds
Special	PPS, Ryton*	Glass filled Polyphenylene Sulfide, Brown	-65°C to +200°C	260°C / 120 Seconds
Special	PA9T	High Temperature Polyamide	-65°C to +150°C	260°C / 120 Seconds
Special	Peek	Glass filled Polyetheretherketone	-65°C to +250°C	

Contacts:

Standard	Phosphor Bronze (Available in All Contact Styles)	-65°C to +125°C
Special	Beryllium Copper (Consult Factory)	-65°C to +150°C
Special	Spinodal** (Consult Factory)	-65°C to +200°C
Special	Beryllium Nickel (Consult Factory)	-65°C to +300°C

Plating:

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

UL/CUL File Number: E64287 Section 2

Cage Code: 31223

* Or equivalent.

** Consult factory for special soldering guidelines.

MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

Special Insertion/Withdrawal forces available upon request

ELECTRICAL PERFORMANCE (Per Mil-C-21097C)

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers:	.100"[2.54mm]	.125"[3.18mm]	.150"[3.81mm]	.156"[3.96mm]
Voltage:	600 VDC	800 VDC	1500 VDC	1800 VDC
	750 VAC	750 VAC	900 VAC	950 VAC

Current Rating: 3 to 5 amperes (amps) per contact

Voltage Drop: 30 Milli volt at rated current

Contact Resistance: 30 Milli ohm maximum at rated current

Registered Trademarks

Sabic Innovative Plastics: Valox

Gardner-Denver Co.: Wire Wrap

Phillips 66: Ryton

Ametek: Spinodal

RTP Compounder: PEEK

Underwriters Labs: UL

Sullins Electronics: Sullins

Sullins Electronics: Zero Lead Time



MP - 0 100 - 22 - D W - 5 xxx

PLATING - RoHS Compliant

ALL PLATINGS ARE LEAD FREE AND HAVE

.000050" NICKEL UNDERPLATE

	Contact Surface	Termination
*MPSL =	.000010" Gold	.000100" Pure Tin Matte
*EMPSL =	.000010" Gold	.000100" Pure Tin Matte
*MPL =	.000100" Overall Pure Tin, Matte	
*EMPL =	.000100" Overall Pure Tin, Matte	
MP =	.000010" Overall Gold	
EMP =	.000010" Overall Gold	
MPP =	Spinodal Contact Material (Overall Gold Only)	
EMPP =	Spinodal Contact Material (Overall Gold Only)	

* Requires 'K' Modification Code

Platings that start with 'E' are for Economy Eyelet Only
Other Plating and thicknesses available upon request.

INSULATOR MATERIAL

All Materials are U.L. Approved 94V-0

- 0 = PBT, Blue
- 1 = PPS, Brown
- 2 = PBT, Green
- 3 = PBT, Black
- 4 = PA9T, Black
- 5 = PPS, Black
- 6 = PPS, Green
- 7 = PPS, Brown
- 8 = Peek, Natural

CONTACT CENTERS

- 100 = .100" [2.54mm]
- 125 = .125" [3.18mm]
- 150 = .150" [3.84mm]
- 156 = .156" [3.96mm]

NUMBER OF POSITIONS

02 - 70 Contacts Per Row

READOUT

D = Dual Row

TERMINATION TYPE

- FS = .045" Square Tails - .720" Insulator Height
- P = Solder Eyelet - .431" Insulator Height
- PE = Economy Eyelet - .431" Insulator Height,
Card Extender, .156" only
- R = .026" Round Tails - .610" Insulator Height,
- S = Dip Solder - .431" Insulator Height
- SE = Card Extender - .431" Insulator Height
- W = .025" Square Wire Wrap -
.610" Insulator Height
- WE = .025" Square Card Extender -
.610" Insulator Height

MOUNTING STYLE

- 1 = **.125" Clearance Holes**
.245" Ears, .431" Insulator Height
.250" Flush Ears, .610" Insulator Height
- 2 = **#4-40 Threaded Insert**
.245" Ears, .431" Insulator Height
.250" Flush Ears, .610" Insulator Height
- 3 = **Floating Bobbin**
.220" Ears not Including Bobbin
on All Connectors
(Flush Ears on .610 Insulator Height)
- 4 = **No Mounting Ears**
All Connectors
- 5 = **Raised with .125" Clearance Holes**
Wire Wrap Only, .610" Insulator Height
- 6 = **Raised with #4-40 Threaded Insert**
Wire Wrap Only, .610" Insulator Height
- 8 = **.125" Side Holes** (Cross Drilled)
- 9 = **One Ear, .125" Clearance Hole**
Dip Solder & Eyelet
- 10 = **One Ear, #4-40 Threaded Insert**
Dip Solder & Eyelet
- 11 = **.142" Mounting Holes**
.431" Insulator Height, Dip Solder, Eyelet
.610" Insulator Height, Wire Wrap
- 12 = **.128" Clearance Holes**
.431" Insulator Height, Dip Solder & Eyelet
.610" Insulator Height, Wire Wrap
- 13 = **Flush Ears, .128" Clearance Holes**
.430" Ears with Pad on .610" Insulator
Height, Wire Wrap Only
- 14 = **.142" Side Holes** (Cross Drilled)
.431" Insulator Height, Dip Solder, Eyelet
.610" Insulator Height, Wire Wrap
- 15 = **Flush Ears, .125" Clearance Holes**
.190" Ears, No Pad
.610" Insulator Height, Wire Wrap Only
- 16 = **Flush .250" Ears to top of the
Card Entry Side of the Connector,**
.610" Insulator Height, Wire Wrap Only
- 18 = **Flush Ears, .125" Side Holes**
(Cross Drilled)
- 19 = **.152" Clearance Holes**
.610" Insulator Height, Wire Wrap Only
- 58 = **Raised Ears, .125" Side Holes**
(Cross Drilled)
- 81 = **Flush Ears, .125" Side Holes**
.250" Ears with Pad, .610" Insulator Height,
Wire Wrap
- 86 = **Side Holes with #4-40 Threaded Insert**
.250" Ears with Pad, .610" Insulator Height

MODIFICATION CODE

CONSULT FACTORY FOR OTHER OPTIONS

- A = **Contacts Loaded one side only**
- B = **Center Barrier for 28/56 -**
.156" Dip Solder & Eyelet
- C = **.030" Longer Cardslot and
Mounting Hole Centers for 22/44,**
All .156" (Consult Factory)
- D = **.000050" Gold Plating -**
(Consult Factory)
- E9 = **.200" Row Spacing on .156"
Contact Centers**
- F = **6.802" Cardslot for 43/86**
.156" Eyelet & Wire Wrap Only
- F9 = **6.802" Cardslot and .200" Row
Spacing for 43/86 Dip Solder Only**
- G = **.000030" Gold Plating**
- H = **.190" Contact Length for .025"
Square & .026" Round Contacts**
.250" Contact Length without
Standoffs
- J = **Low Insertion Force**
- K = **MPSL - Selective Gold with Pure
Tin, Matte Plating on Tails**
MPL - Overall Pure Tin, Matte
- L = **.140" Contact Length for**
.156" Dip Solder Only
- M = **Pad on Bottom of Mounting Ears**
for .156", .431" Insulator Height,
Dip Solder & Eyelet Only
- N = **Hi-light Contact ID on Bottom**
(Consult Factory)
- P = **Engraving Reversed**
(Consult Factory)
- Q = **Right Angle Connector Contacts
Untrimmed**
(Requires 'R' Modification Code)
- R = **Right Angle Connectors**
- S = **Shorter Overall Length**
- T = **Center Standoffs Removed**
.100" & .125" Wire Wrap Only
- TT = **No Standoffs**
- U = **.000020" Gold Plating**
- X9 = **.200" Row Spacing for**
.100" & .156" Dip Solder Only
.250" Row Spacing for
.125" Dip Solder Only
- Y = **Beryllium Copper Contacts**
- Z = **Standoffs on .156" Wire Wrap**

See applicable specification pages for more information.

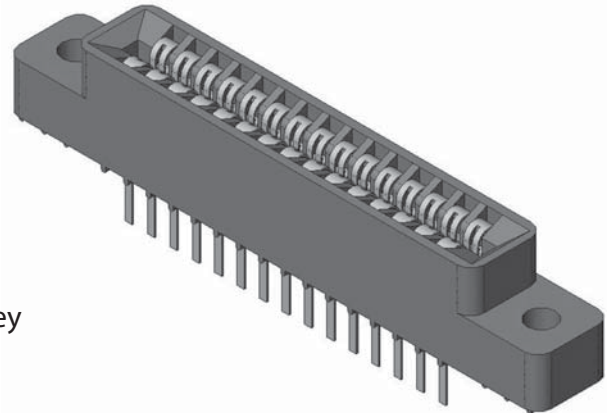
Specifications are subject to change without notice.



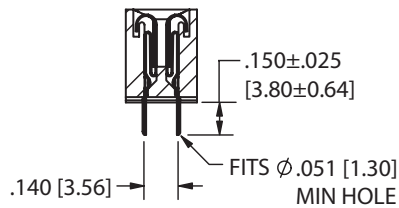
.100" Contact Centers, .431" Insulator Height, Dip Solder

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200"
(Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

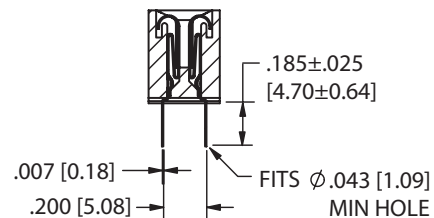


TERMINATION TYPE



**DIP SOLDER (S)
.140" ROW SPACING**

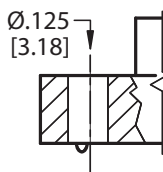
Example P/N: *MPSL-0100-10-DS-1K*



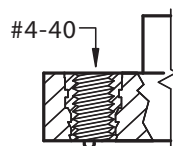
**DIP SOLDER (S)
.200" ROW SPACING
USE 'X9' MODIFICATION CODE**

Example P/N: *MPSL-0100-10-DS-1X9K*

MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface **Termination**

*MPSL = .000010" Gold .000100" Pure Tin, Matte

*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

*Requires 'K' Modification Code

INSULATOR MATERIAL**

0 = PBT

CONTACT CENTERS

100 = .100" [2.54mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

MPSL - 0 100 - 10 - D S - 1 K

MODIFICATION CODE**

K = Required on MPSL or MPL Plating

Omit for MP Plating (Overall Gold)

X9 = .200" Row Spacing

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole

2 = #4-40 Threaded Insert

3 = Floating Bobbin

4 = No Mounting

TERMINATION TYPE (See Opposite Page)

S = Dip Solder

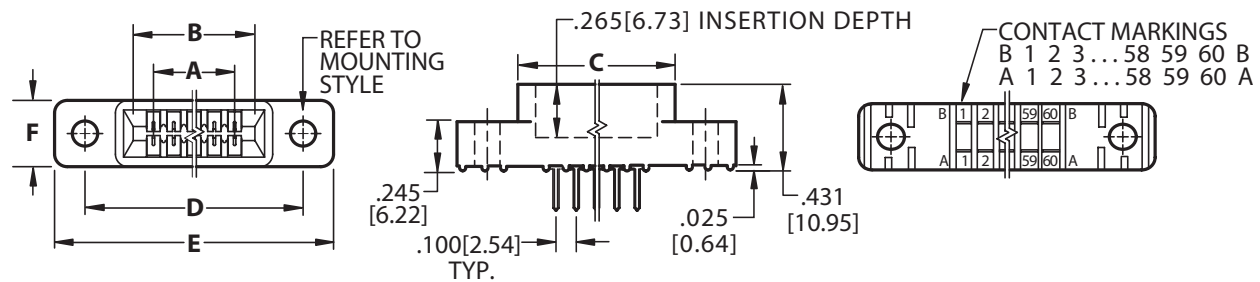
READOUT

D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



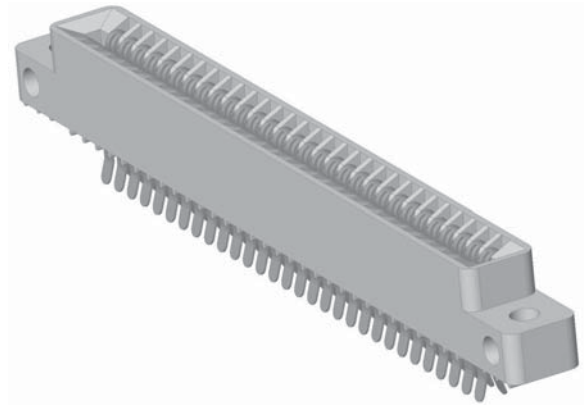
POSITIONS/ CONTACTS	INCHES					F±.005	[MILLIMETERS]					F±0.13
	A±.008	B±.008	C±.015	D±.010	E±.020		A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



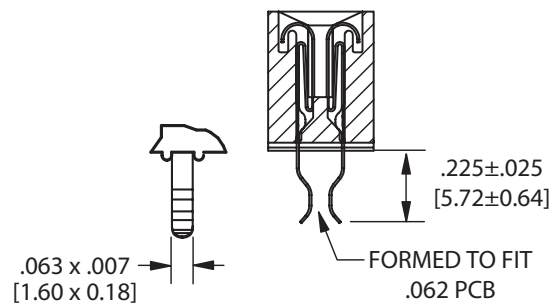
**.100" Contact Centers, .431" Insulator Height,
Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



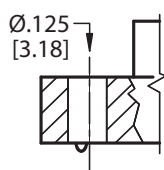
TERMINATION TYPE



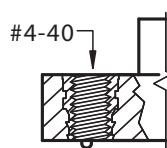
CARD EXTENDER (SE)

Example P/N: MP~~S~~L-0100-10-D~~S~~E-1K

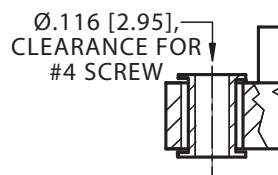
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

MPSL - 0 100 - 10 - D SE - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*** Requires 'K' Modification Code**
Other Plating and thicknesses available upon request

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**
K = Required on Tin Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

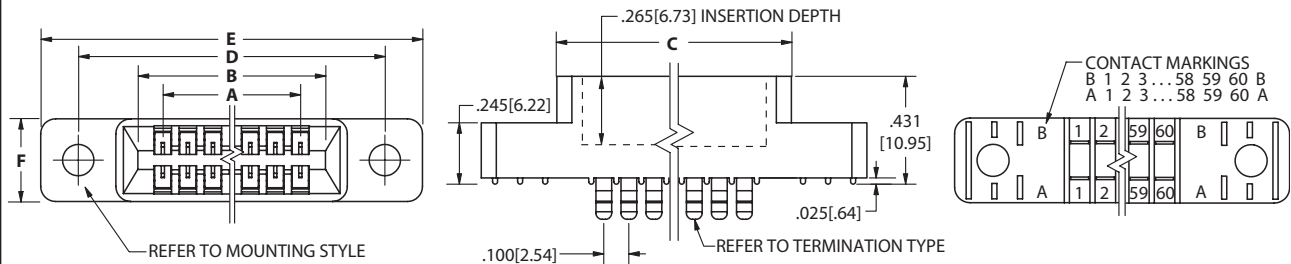
TERMINATION TYPE (See Opposite Page)
SE = Card Extender

READOUT
D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



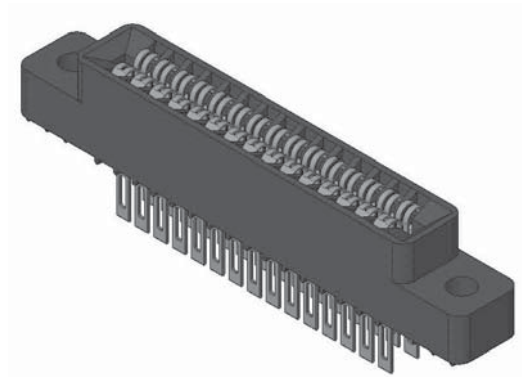
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



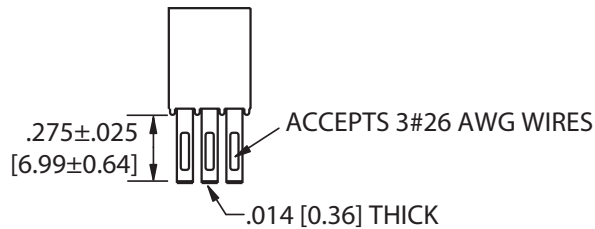
**.100" Contact Centers, .431" Insulator Height,
Eyelet**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and
- Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



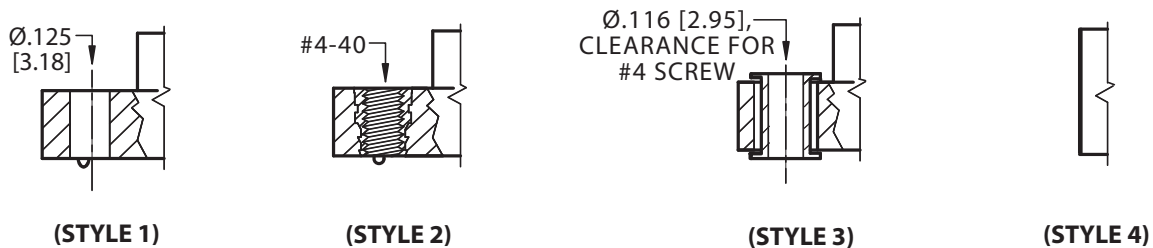
TERMINATION TYPE



EYELET (P)

Example P/N: MP-0100-10-DP-1

MOUNTING STYLE





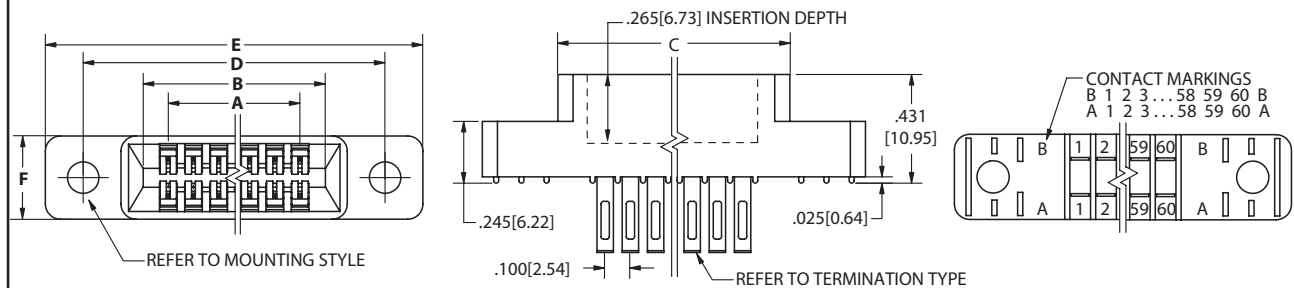
PART NUMBER CODING

PLATING - RoHS Compliant All Platings are Lead Free and have .000050" Nickel Underplate *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold * Requires 'K' Modification Code Other Plating and thicknesses available upon request	INSULATOR MATERIAL** 0 = PBT	CONTACT CENTERS 100 = .100" [2.54mm]	NUMBER OF POSITIONS Contacts Per Row (See Position Chart Below)	PLATING MODIFICATION CODE** K = Required on Tin Plating Omit for MP Plating (Overall Gold)	MOUNTING STYLE (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 3 = Floating Bobbin 4 = No Mounting	TERMINATION TYPE (See Opposite Page) P = Pierced Eyelet, .014" Thick	READOUT D = Dual
--	--	--	---	---	--	--	----------------------------

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



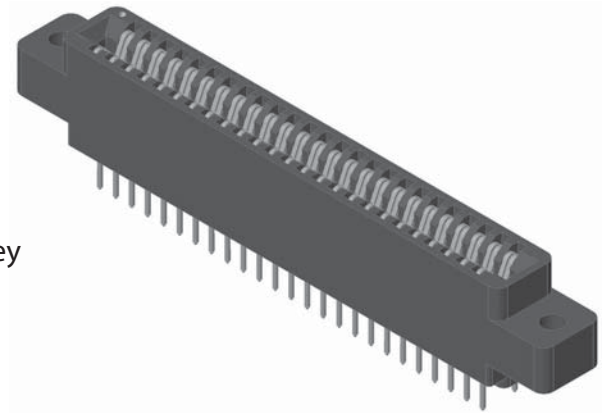
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



**.100" Contact Centers, .610" Insulator Height,
Wire Wrap & Dip Solder**

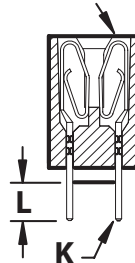
SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

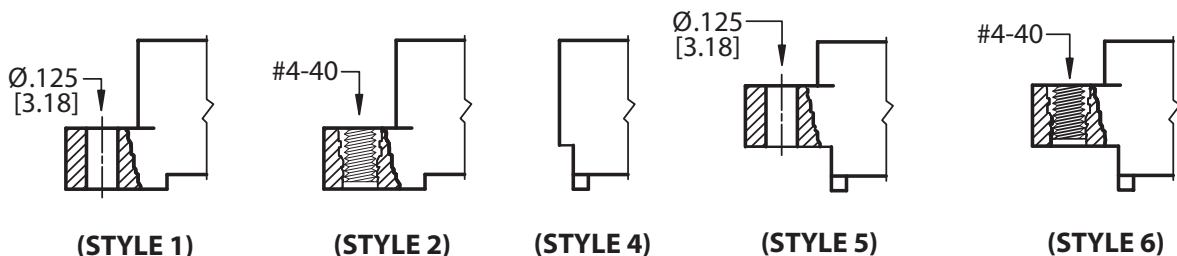
LOOP BELLOWS



LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0100-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0100-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0100-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0100-10-DW-1K</i>

MOUNTING STYLE





PART NUMBER CODING

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100"[2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100"[2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

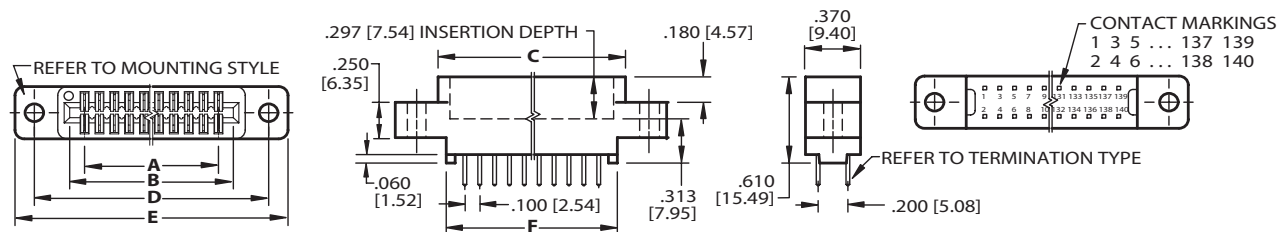
READOUT
D = Dual

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



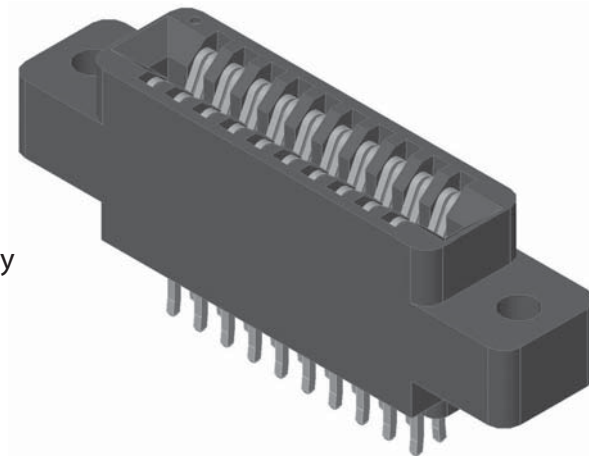
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



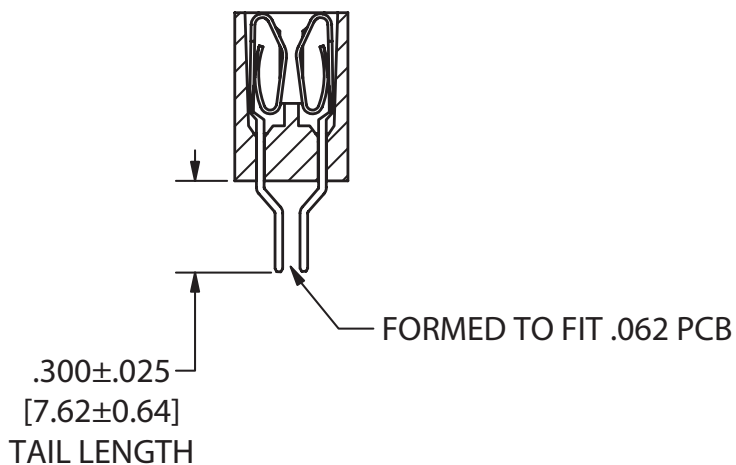
**.100" Contact Centers, .550" Insulator Height,
.025" Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

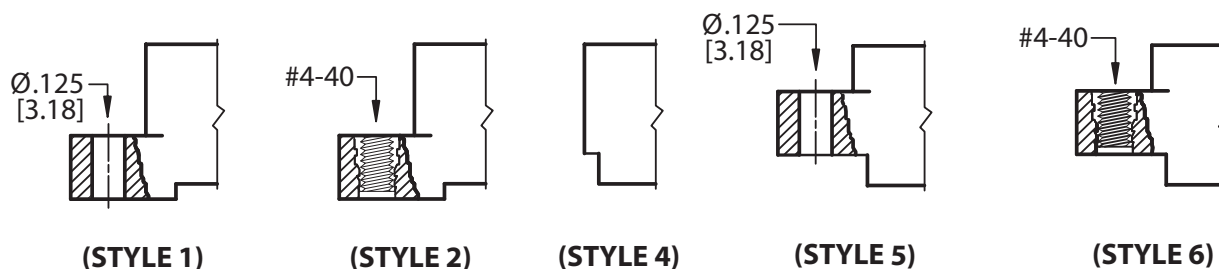


TERMINATION TYPE



Example P/N: MP~~SL~~-0100-10-D~~WE~~-4K~~TT~~

MOUNTING STYLE





PART NUMBER CODING

MPSL - 0 100 - 10 - D WE - 4 K TT

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface	Termination
*MPSL = .000010" Gold	.000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte	
MP = .000010" Overall Gold	

*Requires 'K' Modification Code

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
TT = No Standoffs

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
WE = Card Extender

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

Technical drawings of an edge card connector showing dimensions in inches and millimeters.

Top View: Dimensions A, B, D, and E are indicated. A note points to the mounting style.

Side View: Dimensions C, F, and insertion depth (.297 [7.54]) are indicated. Other dimensions include .250 [6.35], .120 [3.05], .100 [2.54], .025 [0.64], and .550 [13.97].

End View: Contact markings are shown: 1 3 5 ... 137 139 and 2 4 6 ... 138 140.

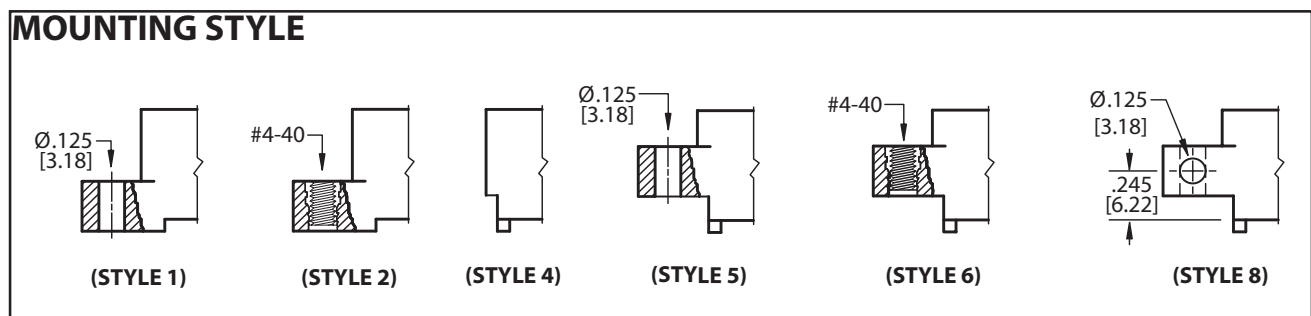
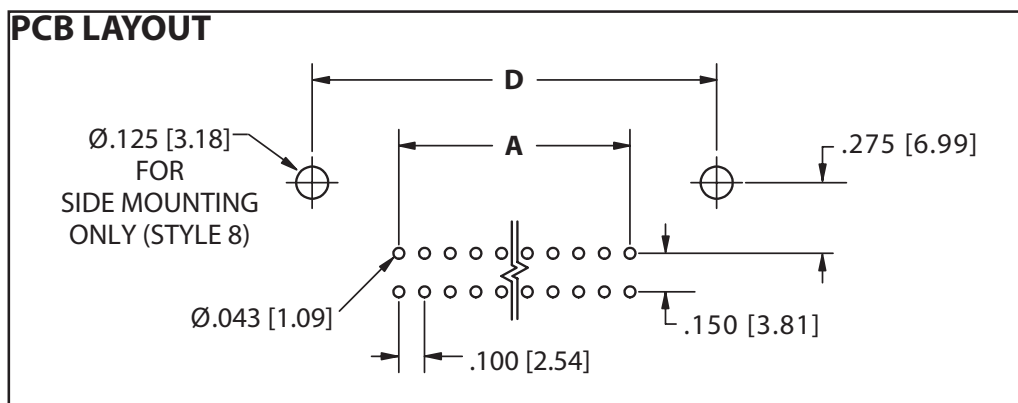
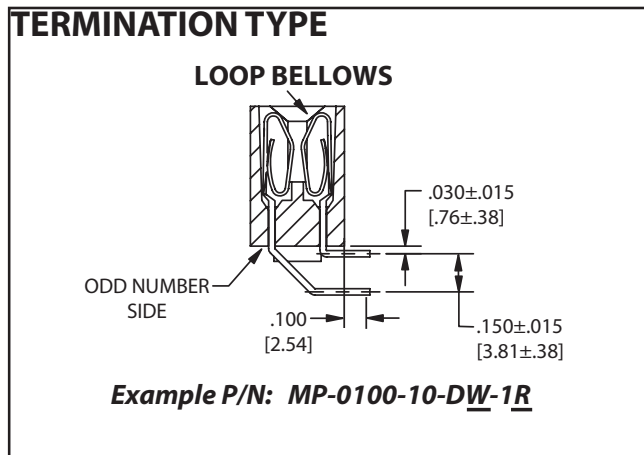
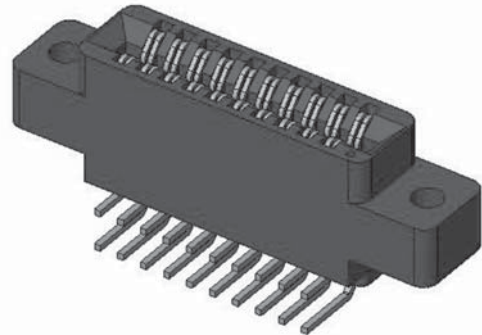
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



**.100" Contact Centers, .610" Insulator Height,
Right Angle**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory





PART NUMBER CODING

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface	Termination
*MPSL = .000010" Gold	.000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte	
MP = .000010" Overall Gold	

*Requires 'K' Modification Code

INSULATOR MATERIAL **

0 = PBT

CONTACT CENTERS

100 = .100" [2.54mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

READOUT

D = Dual

MPSL - 0 100 - 10 - D W - 1 K R

MODIFICATION CODE**

R = Right Angle

PLATING MODIFICATION CODE**

K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 4 = No Mounting
- 5 = Raised, .125" Clearance Hole
- 6 = Raised, #4-40 Threaded Insert
- 8 = Raised, Side Mounting, .125" Clearance Hole

TERMINATION TYPE (See Opposite Page)

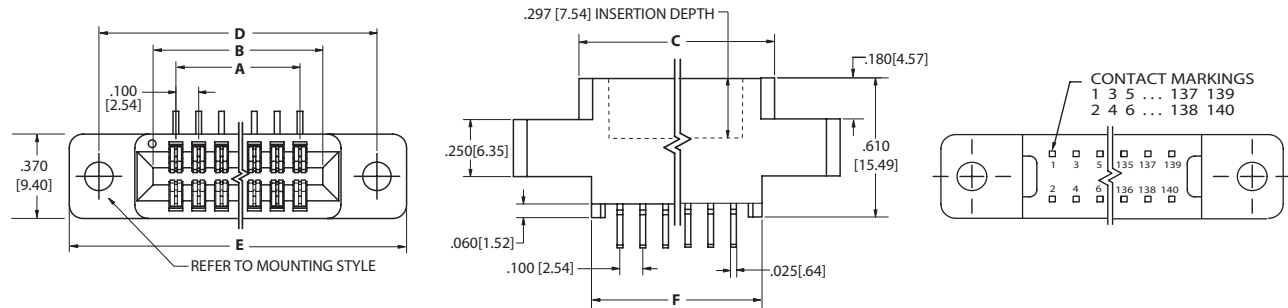
LOOP BELLOWS

W = .025 [.64] Square

** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



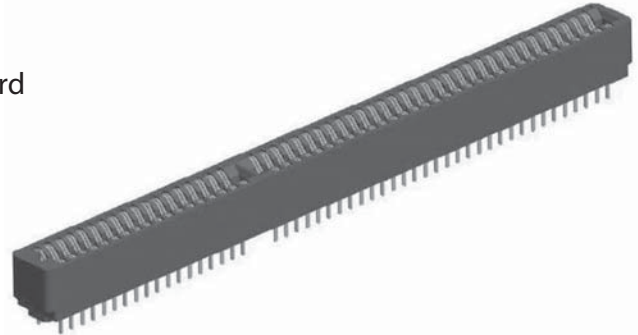
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



**.100" Contact Centers, .610" Insulator Height,
Special 18/31 with Barrier, Dip Solder/Wire Wrap, [ISA]**

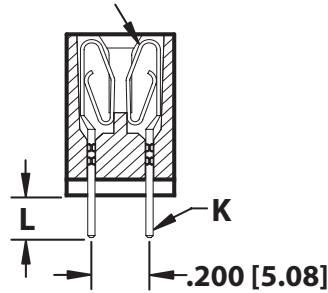
SPECIFICATIONS

- ISA Connector
- Accommodates .062" $\pm$.008" [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

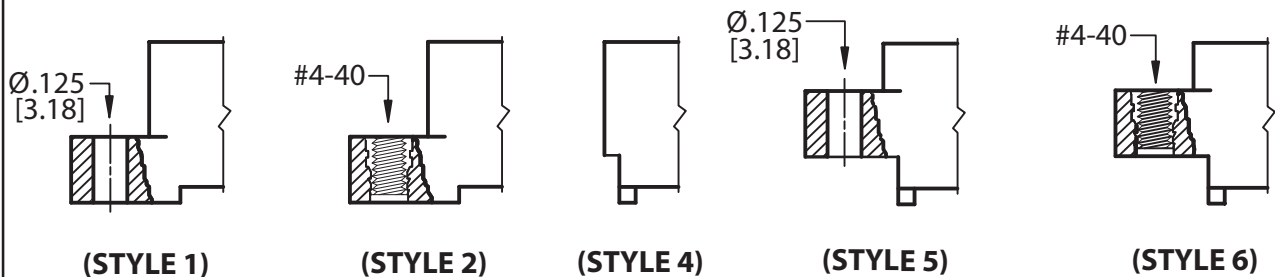
LOOP BELLOWS



LOOP BELLOWS

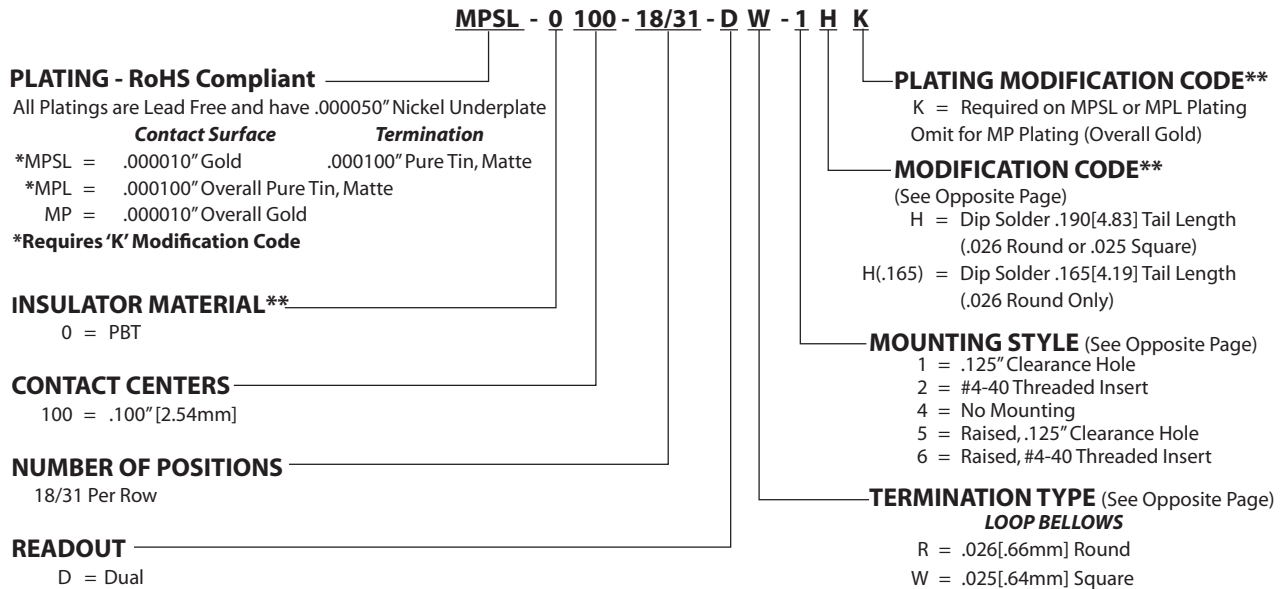
TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0100-18/31-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0100-18/31-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0100-18/31-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0100-18/31-DW-1K</i>

MOUNTING STYLE





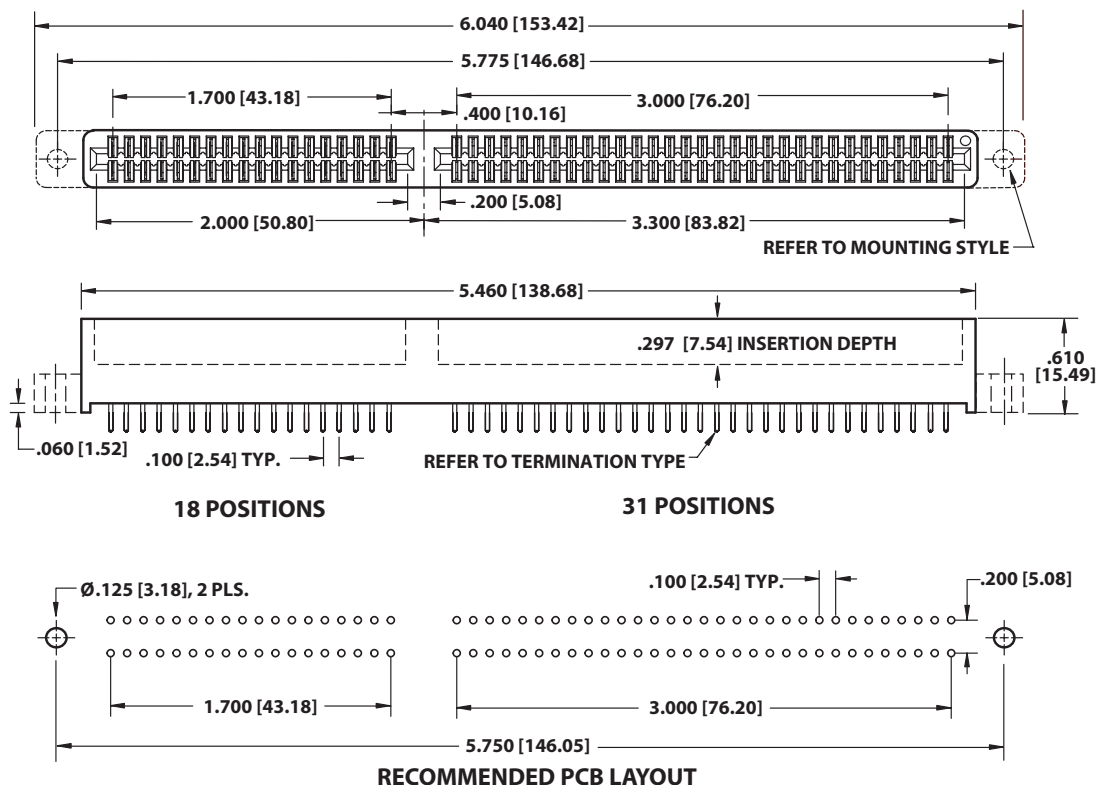
PART NUMBER CODING



**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS
CONSULT FACTORY FOR RIGHT ANGLE VERSION**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

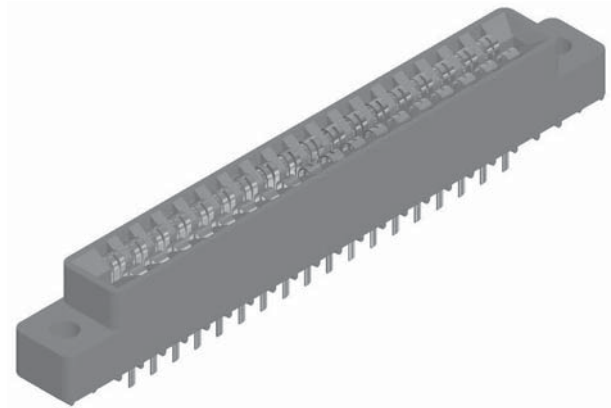




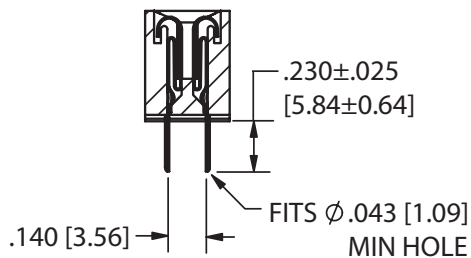
.125" Contact Centers, .431" Insulator Height, Dip Solder

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200" (Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

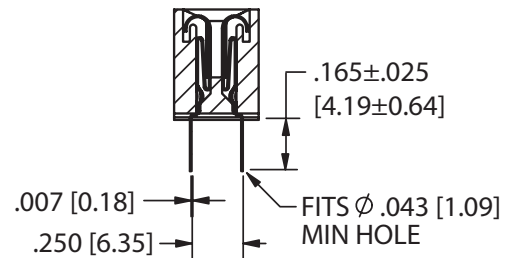


TERMINATION TYPE



DIP SOLDER (S) .140" ROW SPACING

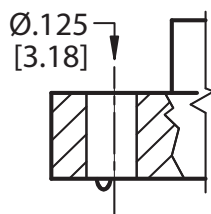
Example P/N: **MPSL-0125-10-DS-1K**



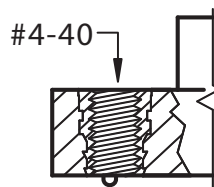
DIP SOLDER (S) .250" ROW SPACING REQUIRES 'X9' MODIFICATION CODE

Example P/N: **MPSL-0125-10-DS-1X9K**

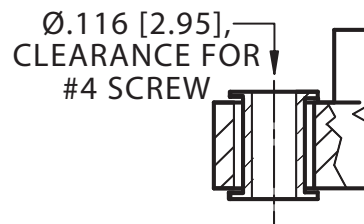
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

MPL - 0 125 - 10 - D S - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)
X9 = .250" Row Spacing

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

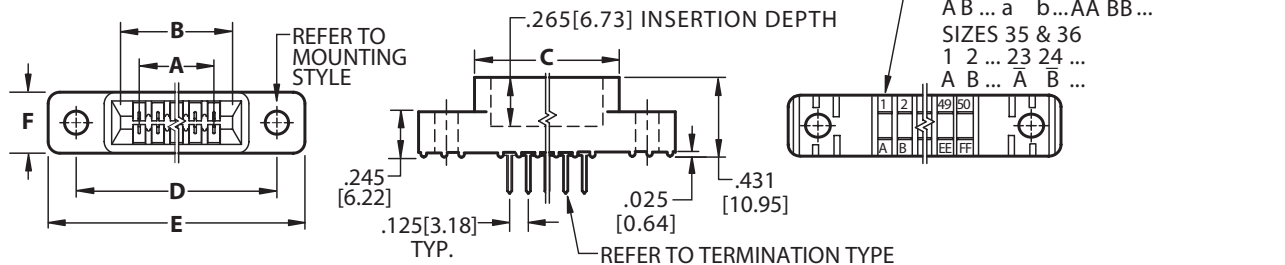
TERMINATION TYPE (See Opposite Page)
S = Dip Solder

READOUT
D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



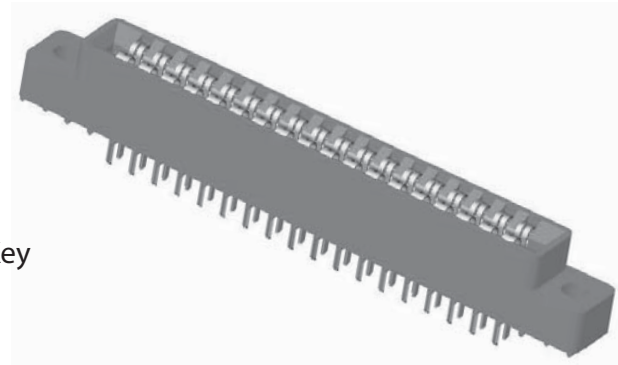
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325	0.370	111.13	117.48	121.54	128.14	135.26	9.40
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825		123.83	130.18	134.24	140.84	147.96	
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



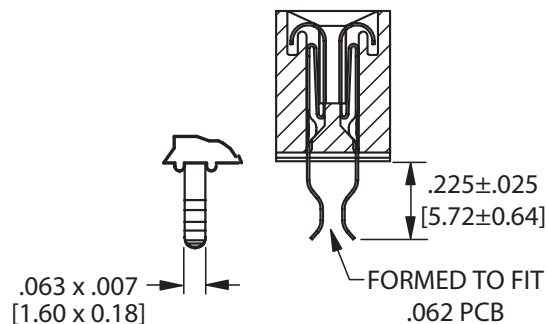
**.125" Contact Centers, .431" Insulator Height,
Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



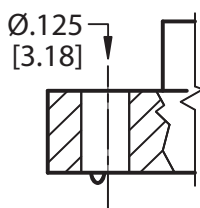
TERMINATION TYPE



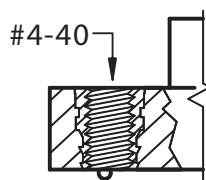
CARD EXTENDER (SE)

Example P/N:
MPSL-0125-10-DSE-1K

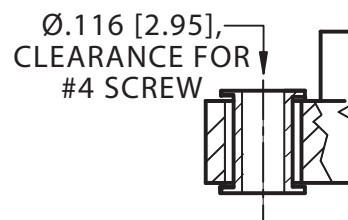
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

MPSL - 0 125 - 10 - D SE - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*Requires 'K' Modification Code
Other Plating and thicknesses available upon request

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

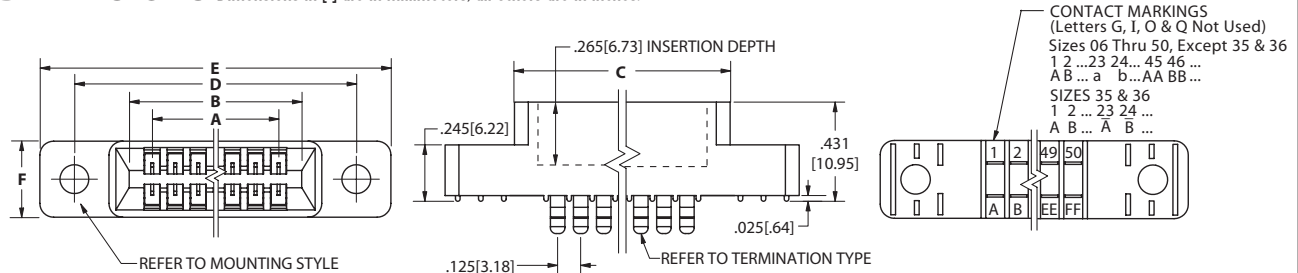
TERMINATION TYPE (See Opposite Page)
SE = Card Extender

READOUT
D = Dual

** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



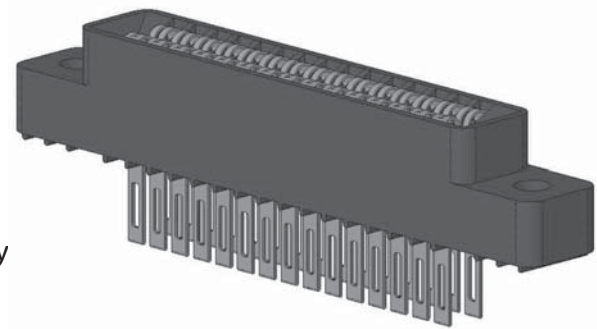
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325	0.370	111.13	117.48	121.54	128.14	135.26	9.40
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825		123.83	130.18	134.24	140.84	147.96	
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



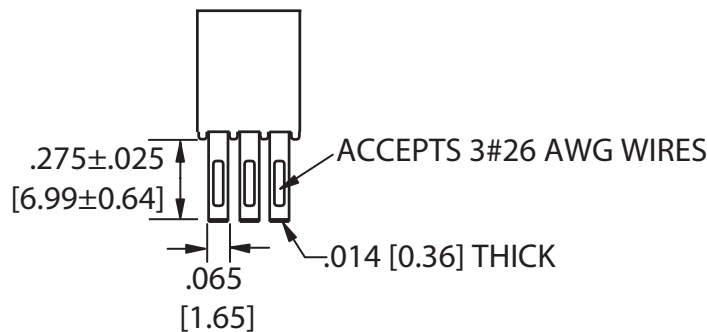
**.125" Contact Centers, .431" Insulator Height,
Eyelet**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



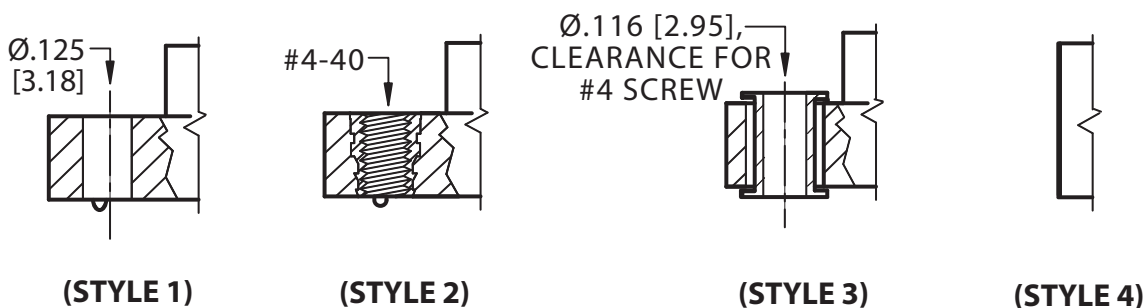
TERMINATION TYPE



EYELET (P)

**Example P/N:
MP-0125-10-DP-1**

MOUNTING STYLE





PART NUMBER CODING

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate
 *MPL = .000100" Overall Pure Tin, Matte
 MP = .000010" Overall Gold
 * Requires 'K' Modification Code
 Other Plating and thicknesses available upon request

INSULATOR MATERIAL **

O = PBT

CONTACT CENTERS

125 = .125" [3.18mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

MPL - 0 125 - 10 - D P - 1 K

PLATING MODIFICATION CODE**

K = Required on Tin Plating
 Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 3 = Floating Bobbin
- 4 = No Mounting

TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick

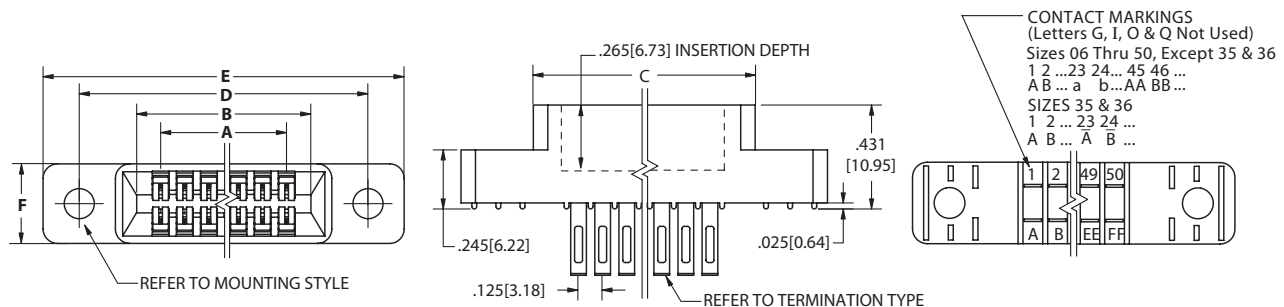
READOUT

D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



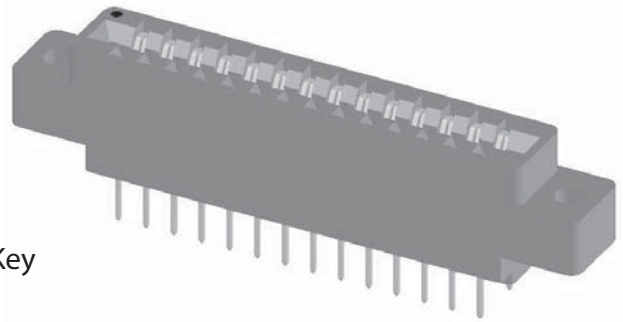
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325		111.13	117.48	121.54	128.14	135.26	
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825	0.370	123.83	130.18	134.24	140.84	147.96	9.40
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



**.125" Contact Centers, .610" Insulator Height,
Wire Wrap & Dip Solder**

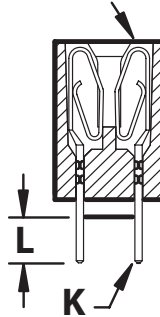
SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

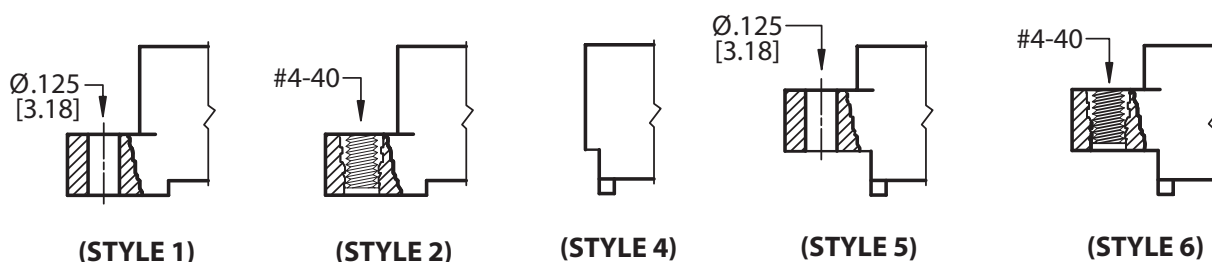
LOOP BELLOWS



LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0125-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0125-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0125-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0125-10-DW-1K</i>

MOUNTING STYLE





PART NUMBER CODING

MPSL - 0 125 - 10 - D W - 1 H K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

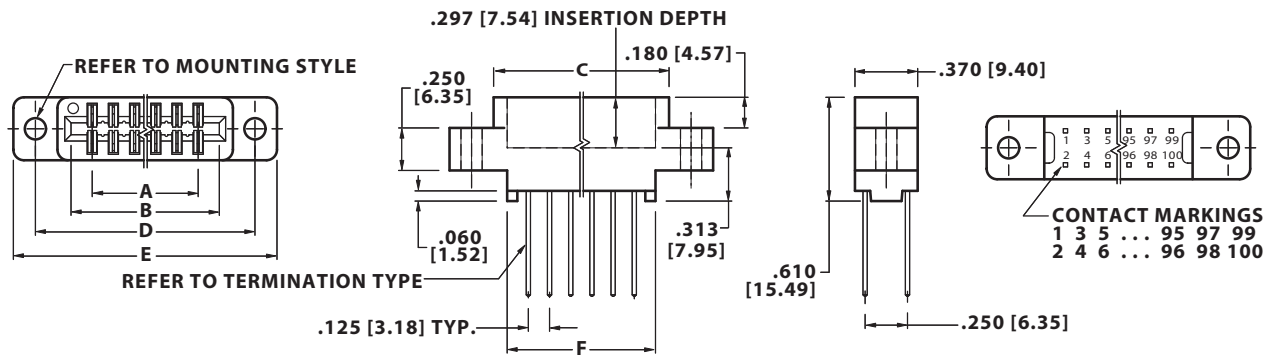
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



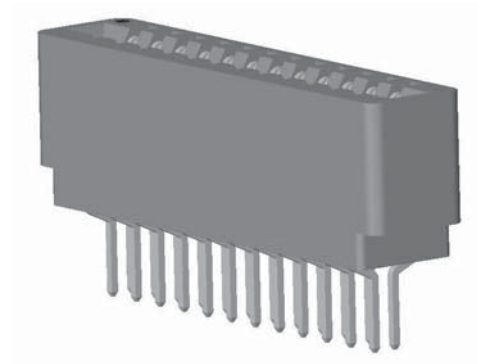
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±.020	B±.020	C±.038	D±.025	E±.051	F±.038
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



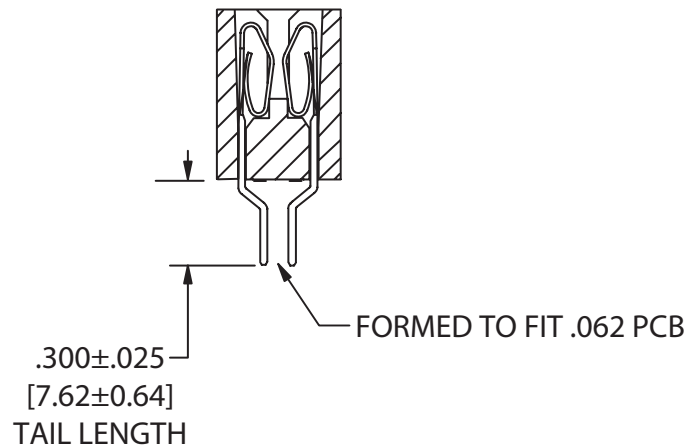
**.125" Contact Centers, .550" Insulator Height,
.025" Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

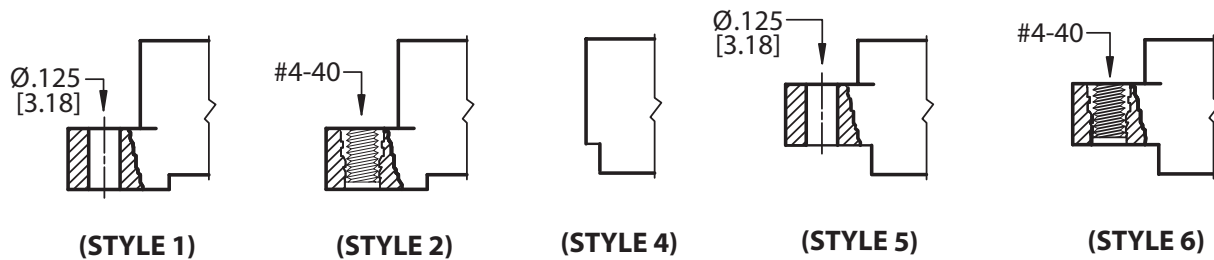


TERMINATION TYPE



Example P/N: *MPSL-0125-10-DWE-4KTT*

MOUNTING STYLE





PART NUMBER CODING

MPSL - 0 125 - 10 - D WE - 4 K TT

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*Requires 'K' Modification Code

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
TT = No Standoffs

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

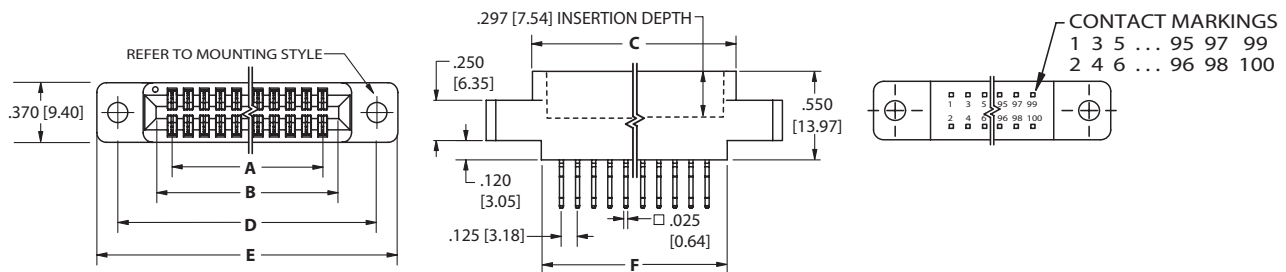
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
WE = Card Extender

**** SEE PAGES 80-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



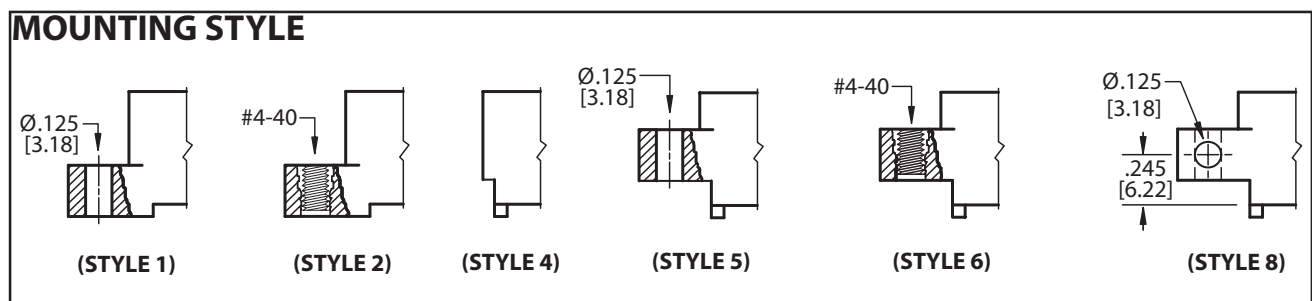
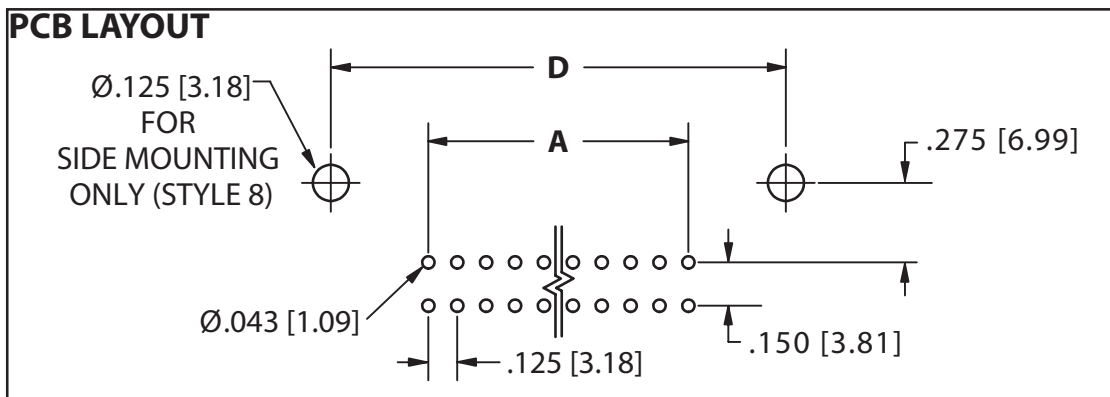
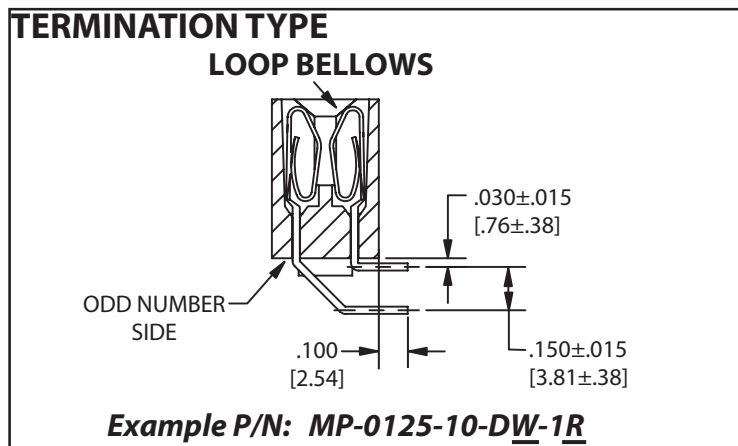
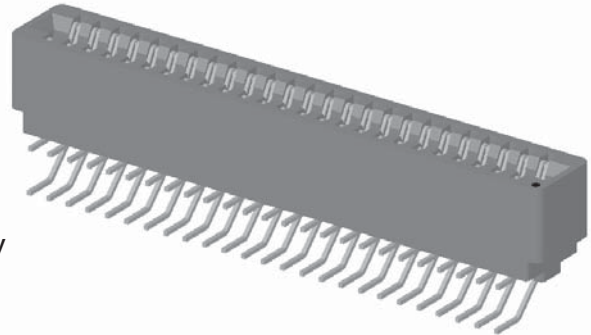
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



**.125" Contact Centers, .610" Insulator Height,
Right Angle**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory





PART NUMBER CODING

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*Requires 'K' Modification Code

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3018mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
R = Right Angle

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert
8 = Raised, Side Mounting, .125" Clearance Hole

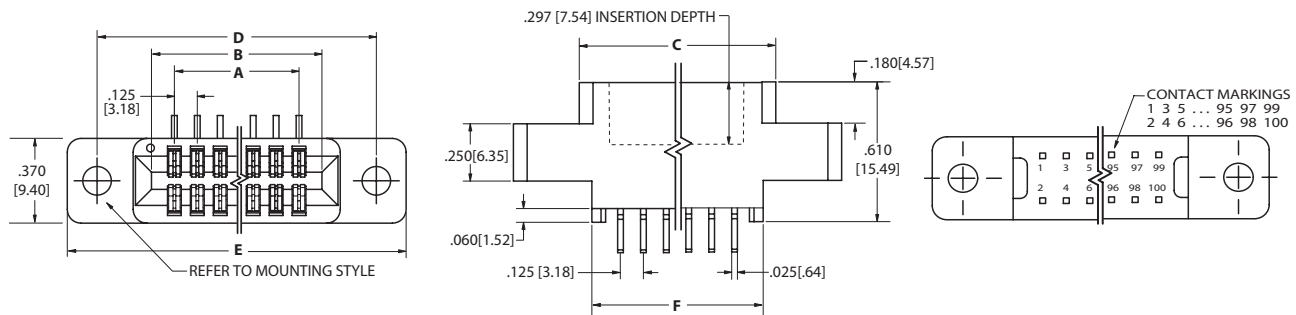
TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
W = .025 [.64] Square

Example Part Number: MPSL - 0 125 - 10 - D W - 1 K R

** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



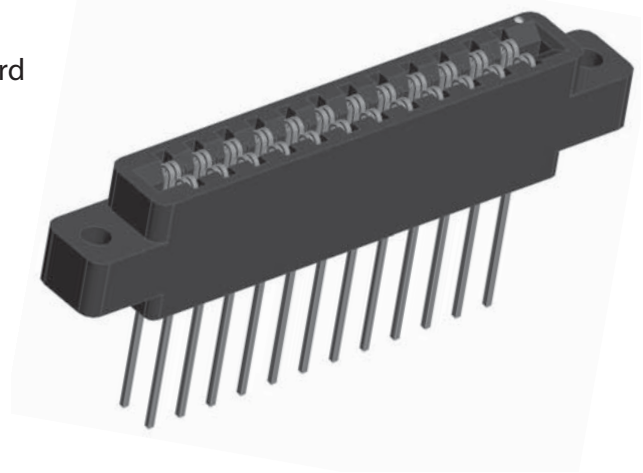
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



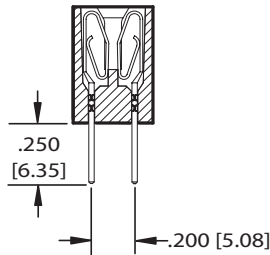
**.150" Contact Centers, .550" Insulator Height,
.025" Square & .026" Round Dip Solder**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

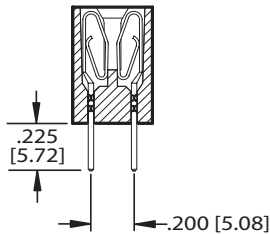


TERMINATION TYPE



.250 [6.35] TAIL LENGTH

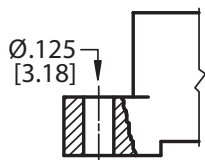
Termination Code	Modification Code	Termination Type	Fits Min. Hole Size	Example Part Number
W	H	.025[.64] Square	.040[1.02]	<i>MPSL-0150-18-DW-1HK</i>
R	H	.026[.66] Round	.030[0.76]	<i>MPSL-0150-18-DR-1HK</i>



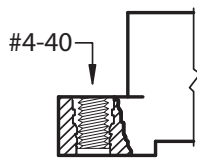
.225 [5.72] TAIL LENGTH

Termination Code	Modification Code	Termination Type	Fits Min. Hole Size	Example Part Number
R	H(.225)	.026[.66] Round	.030[0.76]	<i>MPSL-0150-18-DR-1HK(.225)</i>

MOUNTING STYLE



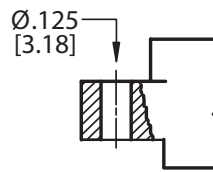
(STYLE 1)



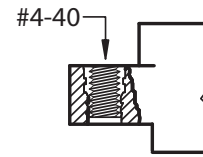
(STYLE 2)



(STYLE 4)



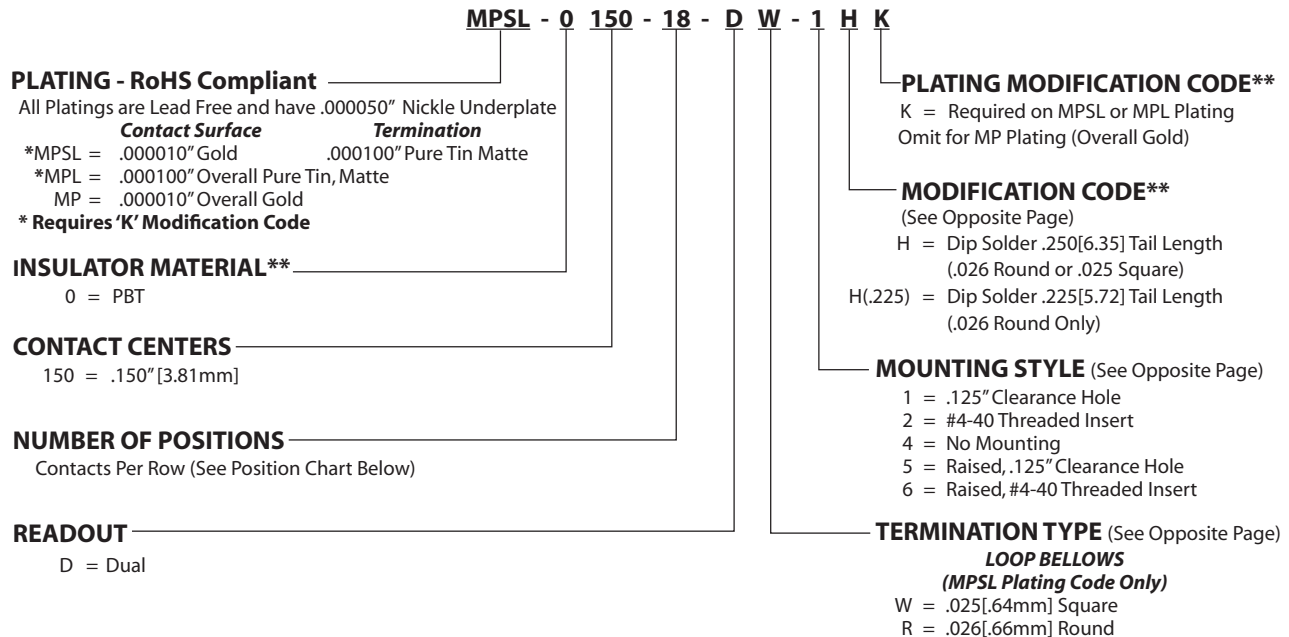
(STYLE 5)



(STYLE 6)



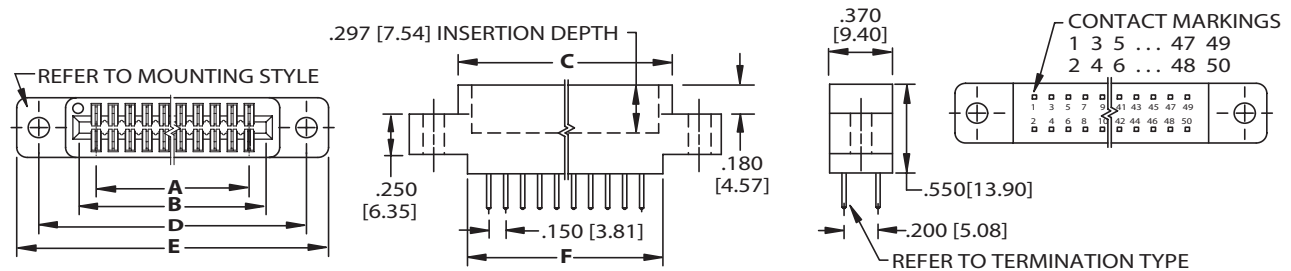
PART NUMBER CODING



**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



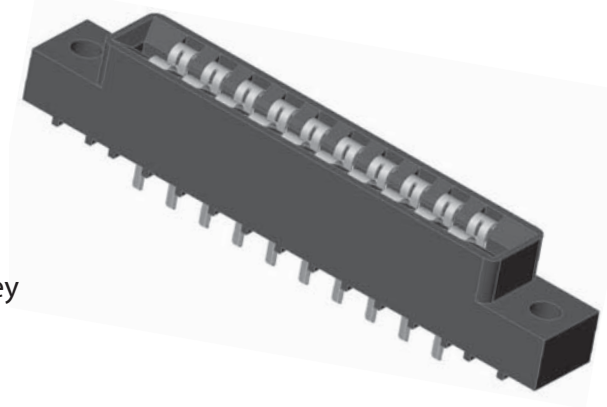
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.010	B±.010	C±.015	D±.015	E±.020	F±.015	A±0.25	B±0.25	C±0.38	D±0.38	E±0.51	F±0.20
18/36	2.550	2.850	2.990	3.300	3.550	2.800	64.77	72.39	75.95	83.82	90.17	71.12
25/50	3.600	3.900	4.040	-----	-----	3.850	91.44	99.06	102.62	-----	-----	97.79
26/52	3.750	4.050	4.190	4.500	4.750	4.000	95.25	102.87	106.43	114.30	120.65	101.60
28/56	4.050	4.350	4.490	4.800	5.050	4.300	102.87	110.49	114.05	121.92	128.27	109.22
32/64	4.650	4.950	5.090	-----	-----	4.900	118.11	125.73	129.29	-----	-----	124.46
50/100	7.350	7.650	7.800	-----	-----	7.600	186.69	194.31	198.12	-----	-----	193.04



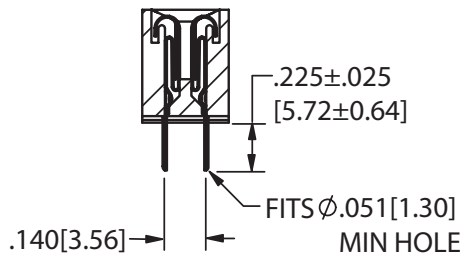
.156" Contact Centers, .431" Insulator Height, Dip Solder

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200"
(Use Modification Code 'E9' or 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

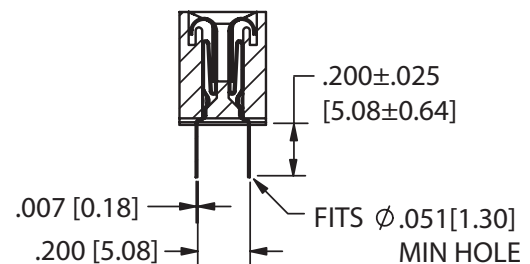


TERMINATION TYPE



DIP SOLDER (S) .140" ROW SPACING

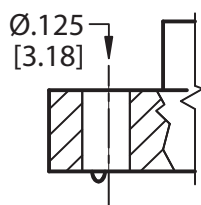
Example P/N: MPSL-0156-10-DS-1K



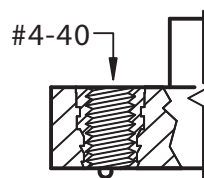
DIP SOLDER (S) .200" ROW SPACING REQUIRES 'X9' MODIFICATION CODE

Example P/N: MPSL-0156-10-DS-1X9K

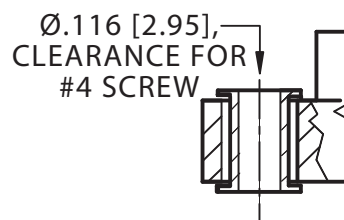
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



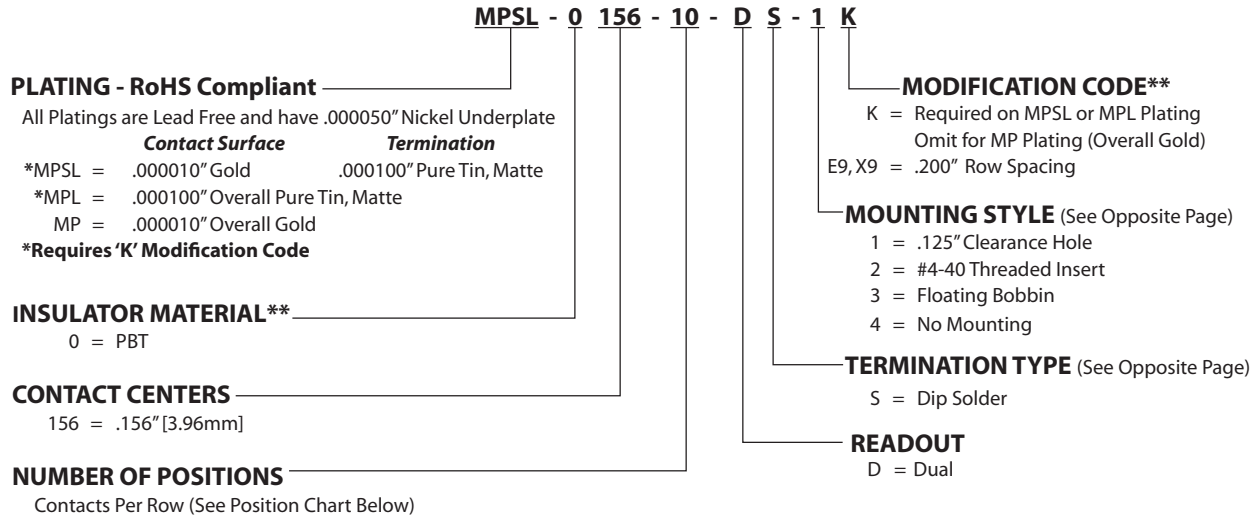
(STYLE 3)



(STYLE 4)



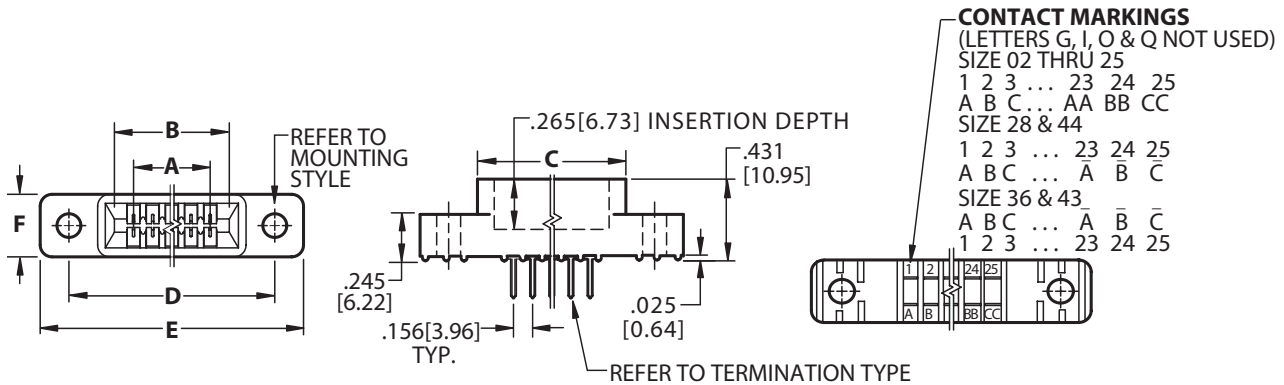
PART NUMBER CODING



**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



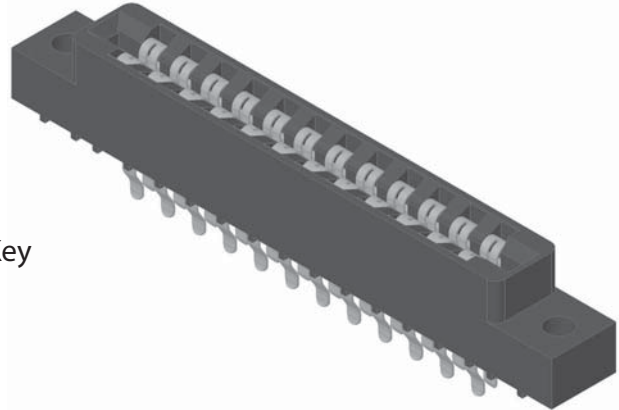
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13
02/04	0.156	0.476	0.596	'N' MOUNTING		0.325	3.96	12.09	15.14	'N' MOUNTING		8.26
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING		
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12	
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710	0.438	91.14	99.26	102.31	110.26	119.63	11.13
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334		106.98	115.11	118.16	126.11	135.48	
36/72	5.460	5.780	5.900	6.213	6.582	0.500	138.68	146.81	149.86	157.81	167.18	12.70
43/86	6.552	6.872	6.992	7.305	7.674		166.42	174.55	177.60	185.55	194.92	
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	



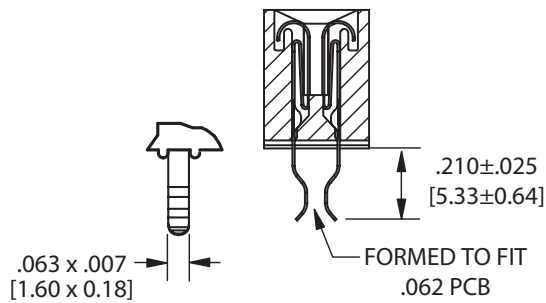
**.156" Contact Centers, .431" Insulator Height,
Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

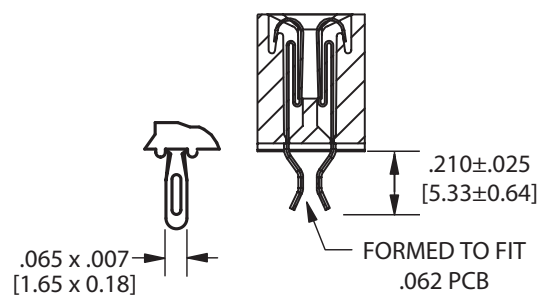


TERMINATION TYPE



CARD EXTENDER (SE)

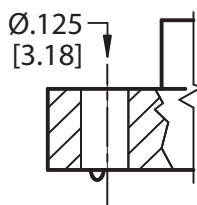
Example P/N: MPSL-0156-10-DSE-1K



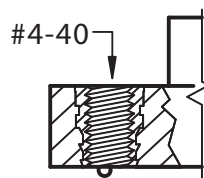
**ECONOMY EYELET
CARD EXTENDER (PE)**

Example P/N: EMPL-0156-10-DPE-1K

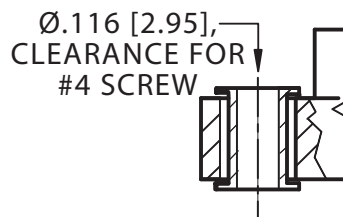
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

MPSL - 0 156 - 10 - D SE - 1 K

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSL = .000010" Gold .000100" Pure Tin Matte

*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

Platings that start with 'E' are for Economy Eyelet Only

*EMPSL = .000010" Gold .000100" Pure Tin Matte

*EMPL = .000100" Overall Pure Tin, Matte

EMP = .000010" Overall Gold

*** Requires 'K' Modification Code**

Other Plating and thicknesses available upon request

PLATING MODIFICATION CODE**

K = Required on MPSL or MPL Plating

Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole

2 = #4-40 Threaded Insert

3 = Floating Bobbin

4 = No Mounting

TERMINATION TYPE (See Opposite Page)

SE = Card Extender

Requires Part Number to start with 'M'

PE = Economy Eyelet Card Extender

Requires Part Number to start with 'E'

INSULATOR MATERIAL**

0 = PBT

CONTACT CENTERS

156 = .156" [3.96mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

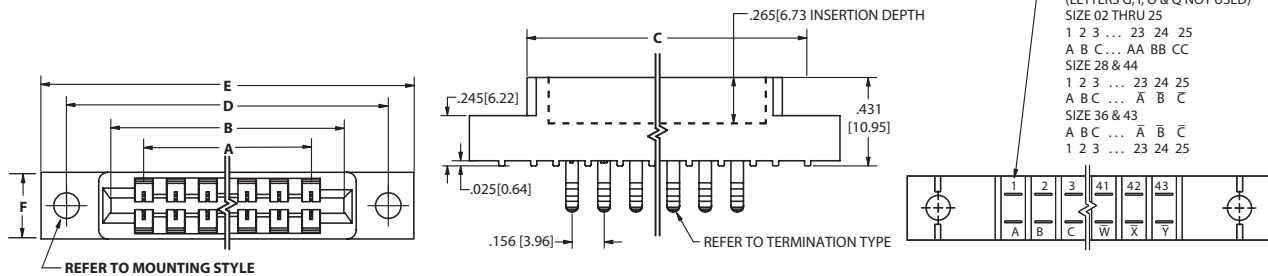
READOUT

D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



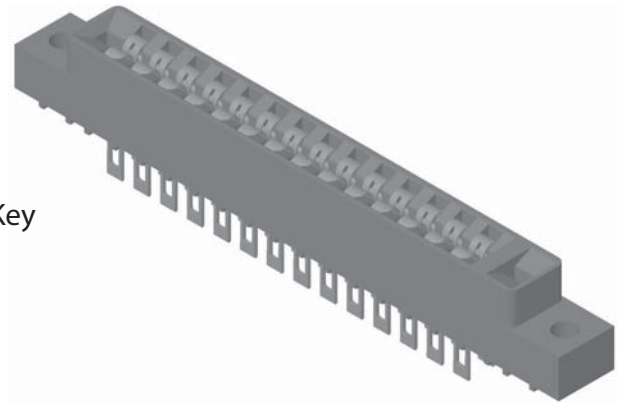
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±.020	B±.020	C±.038	D±.025	E MAX	F±.013
02/04	0.156	0.476	0.596	'N' MOUNTING			3.96	12.09	15.14	'N' MOUNTING		
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING		
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12	
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63	
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334		106.98	115.11	118.16	126.11	135.48	
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18	
43/86	6.552	6.872	6.992	7.305	7.674		166.42	174.55	177.60	185.55	194.92	
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	



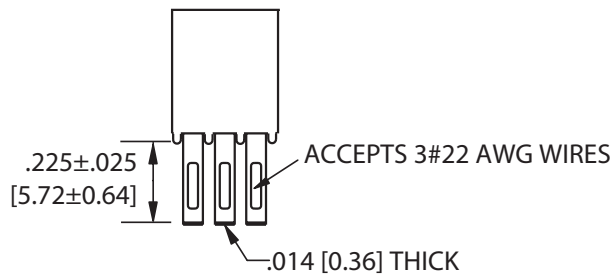
**.156" Contact Centers, .431" Insulator Height,
Eyelet**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

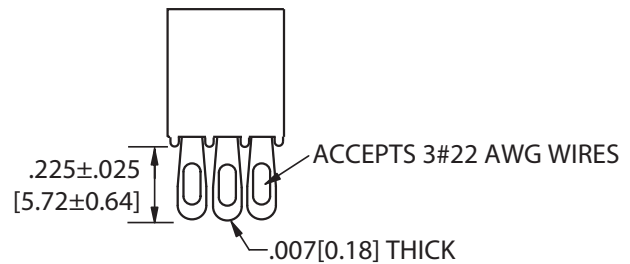


TERMINATION TYPE



EYELET (P)

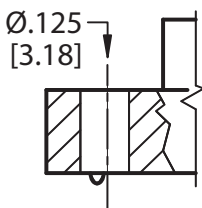
Example P/N: MP-0156-10-DP-1



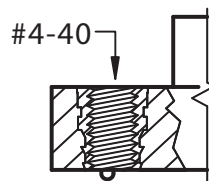
ECONOMY EYELET (P)

Example P/N: EMPSL-0156-10-DP-1K

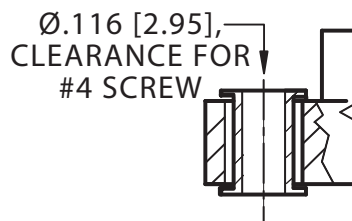
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER CODING

MPL - 0 156 - 10 - D P - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold

Platings that start with 'E' are for Economy Eyelet Only

*EMPSL = .000010" Gold .000100" Pure Tin Matte
*EMPL = .000100" Overall Pure Tin, Matte
EMP = .000010" Overall Gold

*** Requires 'K' Modification Code**
Other Plating and thicknesses available upon request

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**
K = Required on Tin Plating Terminations
Omit for MP and EMP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

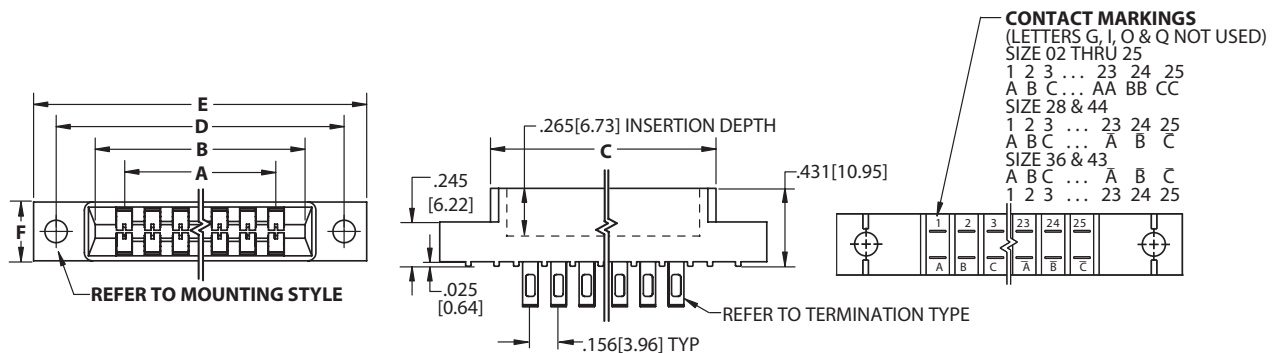
TERMINATION TYPE (See Opposite Page)
P = Pierced Eyelet, .014" Thick
MPL and MP Plating Only
P = Economy Eyelet, .007" Thick
Requires Part Number to start with 'E'

READOUT
D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



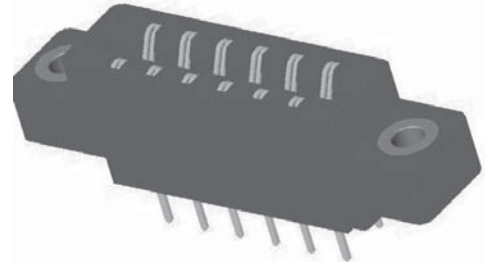
POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13
02/04	0.156	0.476	0.596	'N' MOUNTING			3.96	12.09	15.14	'N' MOUNTING		
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING		
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682	0.325	39.62	47.75	50.80	58.75	68.12	8.26
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63	
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334	0.438	106.98	115.11	118.16	126.11	135.48	11.13
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18	
43/86	6.552	6.872	6.992	7.305	7.674	0.500	166.42	174.55	177.60	185.55	194.92	12.70
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	



**.156" Contact Centers, .610" Insulator Height,
Wire Wrap & Dip Solder**

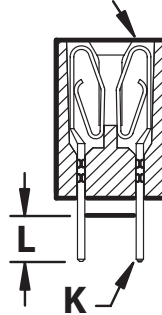
SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

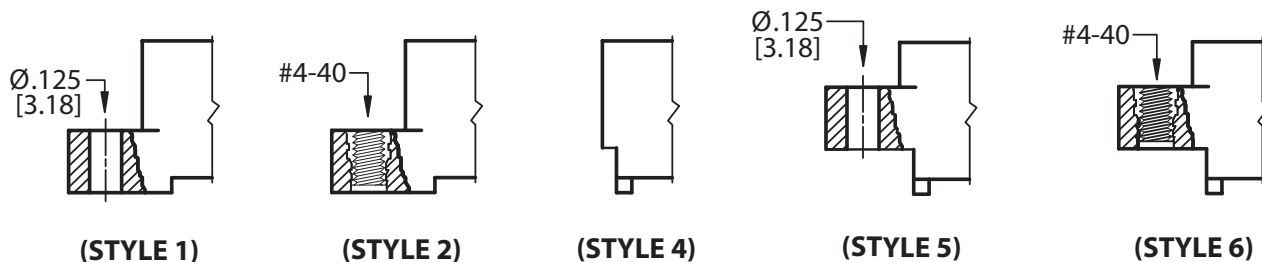
LOOP BELLOWS



LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0156-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0156-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0156-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0156-10-DW-1K</i>

MOUNTING STYLE





PART NUMBER CODING

MPSL - 0 156 - 10 - D W - 1 H K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface **Termination**
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

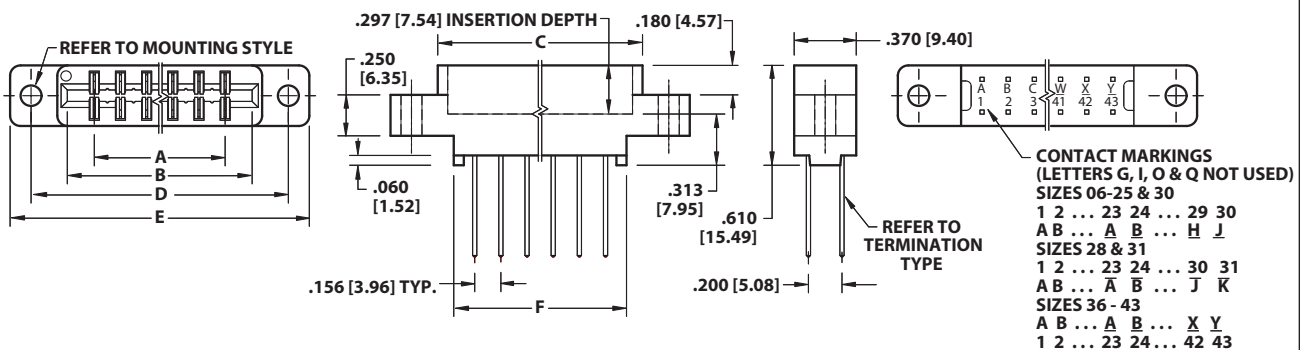
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

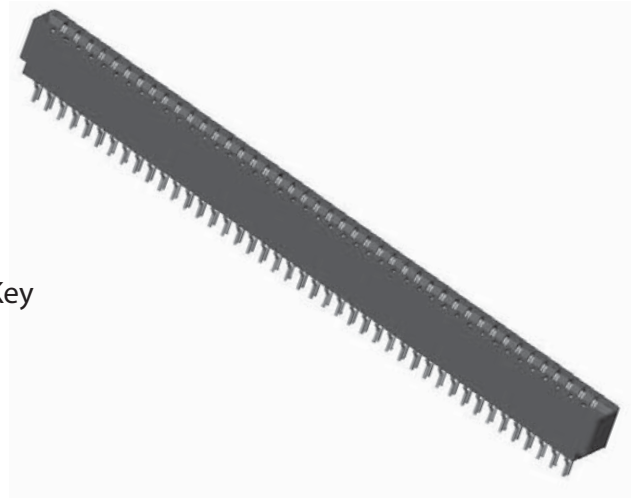
* Consult Factory for availability.



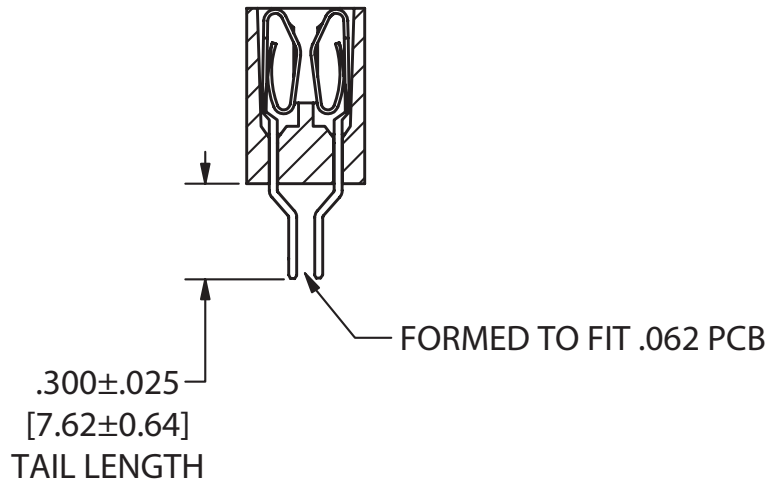
**.156" Contact Centers, .550" Insulator Height,
.025" Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

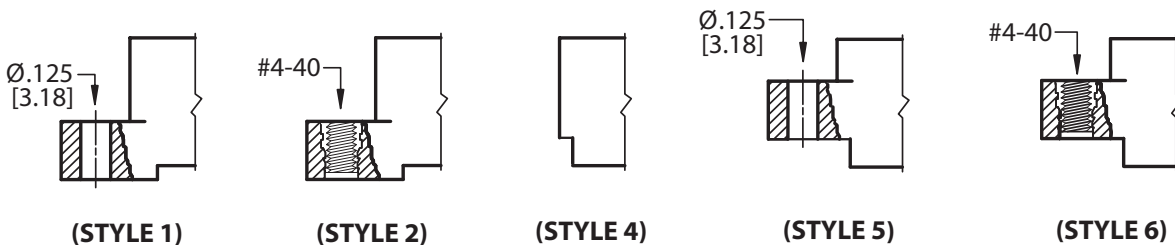


TERMINATION TYPE



Example P/N: MP~~SL~~-0156-10-DWE-4KT~~T~~

MOUNTING STYLE





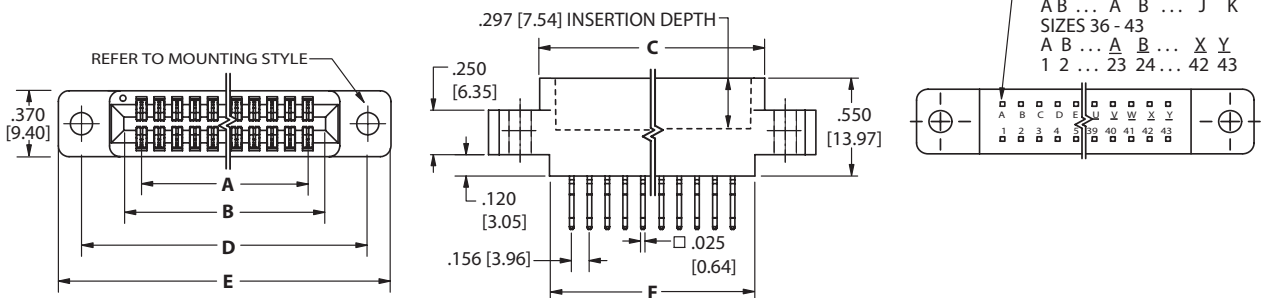
PART NUMBER CODING

PLATING - RoHS Compliant	MPSL - 0 156 - 10 - D WE - 4 K TT	MODIFICATION CODE** TT = No Standoffs
All Platings are Lead Free and have .000050" Nickel Underplate		
Contact Surface	Termination	PLATING MODIFICATION CODE** K = Required on MPSL or MPL Plating Omit for MP Plating (Overall Gold)
*MPSL = .000010" Gold	.000100" Pure Tin, Matte	
*MPL = .000100" Overall Pure Tin, Matte		
MP = .000010" Overall Gold		
*Requires 'K' Modification Code		
INSULATOR MATERIAL**		MOUNTING STYLE (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 4 = No Mounting 5 = Raised, .125" Clearance Hole 6 = Raised, #4-40 Threaded Insert
0 = PBT		
CONTACT CENTERS		TERMINATION TYPE (See Opposite Page) WE = Card Extender
156 = .156" [3.96mm]		
NUMBER OF POSITIONS		READOUT D = Dual
Contacts Per Row (See Position Chart Below)		

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

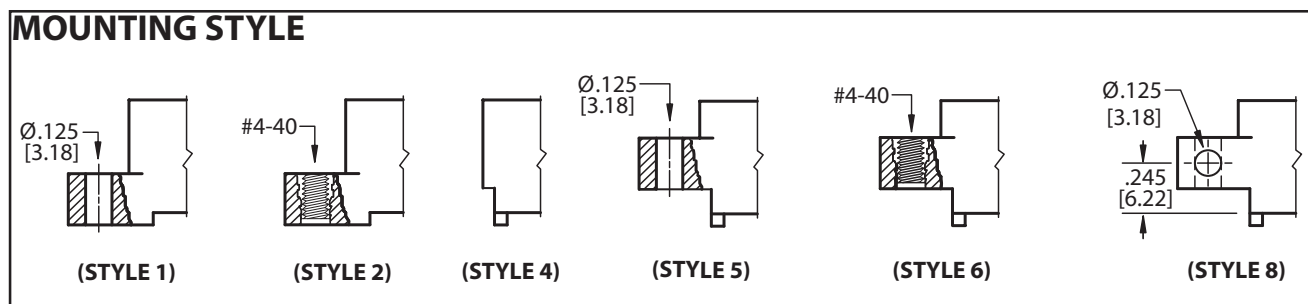
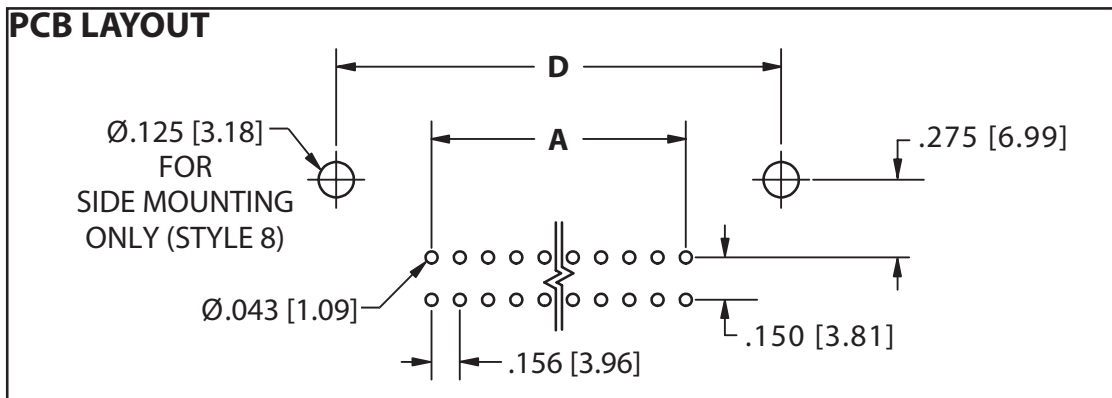
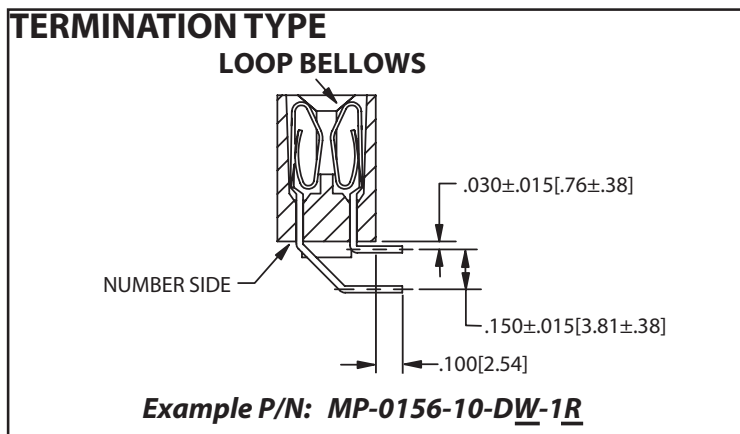
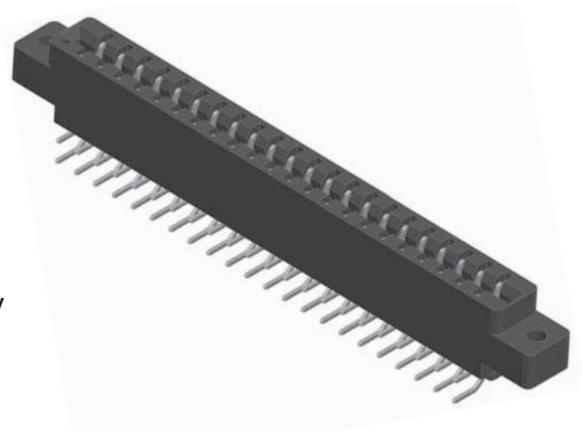
* Consult Factory for availability.



.156" Contact Centers, .610" Insulator Height, Right Angle

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory





PART NUMBER CODING

MPSL - 0 156 - 10 - D W - 1 K R

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
R = Right Angle

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

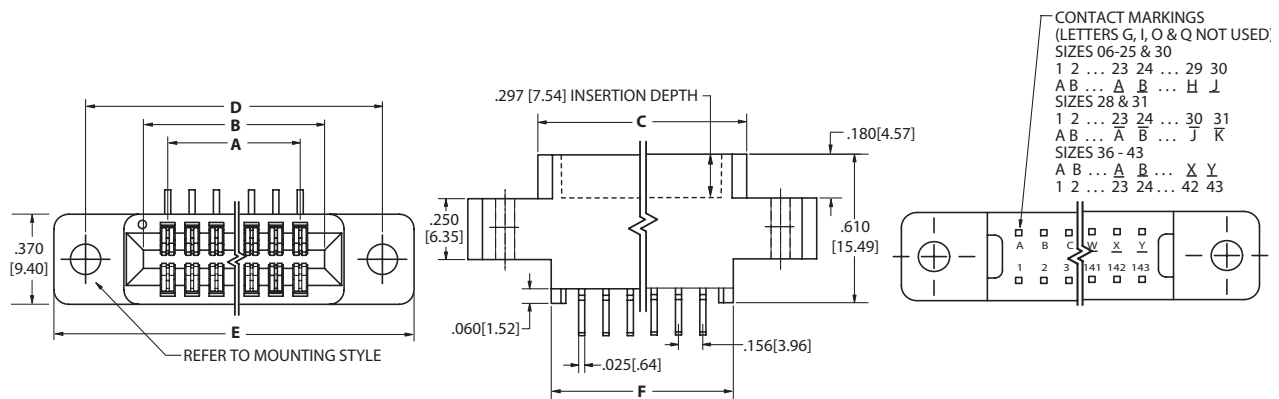
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert
8 = Raised, Side Mounting, .125" Clearance Hole

TERMINATION TYPE
LOOP BELLOWS
W = .025 [.64] Square

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

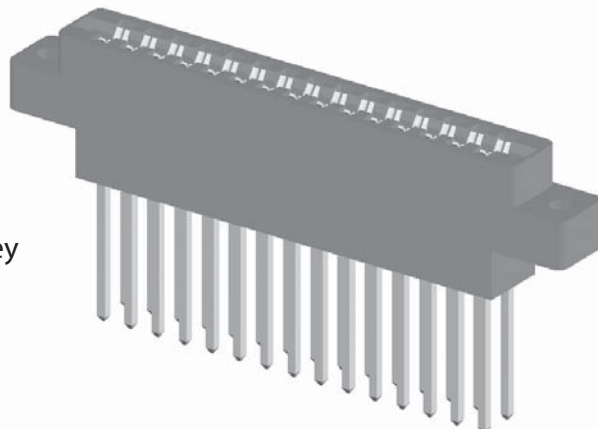
* Consult Factory for availability.



**.156" Contact Centers, .720" Insulator Height,
.045" Square Wire Wrap**

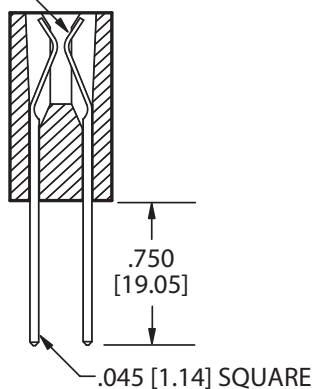
SPECIFICATIONS

- Accommodates .062" $\pm$.008" [1.57 $\pm$ 0.20] PC Board
- Insulator Material available in PBT
- 5 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

CANTILEVER CONTACT

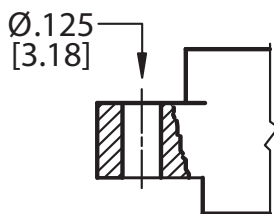


Example P/N: MP~~SL~~-0156-10-DFS-1K

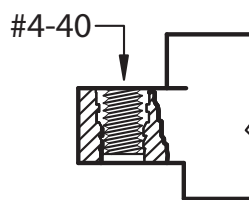
MOUNTING STYLE



(STYLE 4)



(STYLE 5)



(STYLE 6)



PART NUMBER CODING

MPSSL - 0 156 - 10 - D FS - 4 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold

***Requires 'K' Modification Code**

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

MODIFICATION CODE**

PLATING MODIFICATION CODE**
K = Required on MPSSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

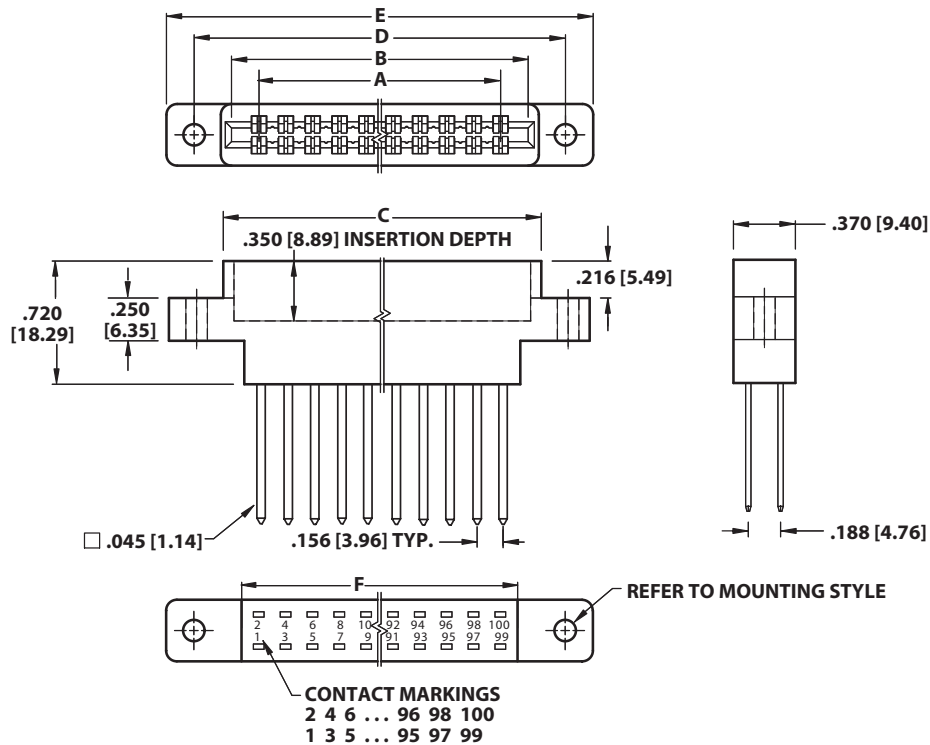
TERMINATION TYPE (See Opposite Page)
FS = .045 Square Contacts

READOUT
D = Dual

**** SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
10/20	1.404	1.724	1.848	2.158	2.408	1.604	35.66	43.79	46.94	54.81	61.16	40.74
12/24	1.716	2.036	2.160	2.470	2.720	1.916	43.59	51.71	54.86	62.74	69.09	48.67
15/30	2.184	2.504	2.628	2.938	3.188	2.384	55.47	63.60	66.75	74.63	80.98	60.55
18/36	2.652	2.972	3.096	3.406	3.656	2.852	67.36	75.49	78.64	86.51	92.86	72.44
22/44	3.276	3.596	3.720	4.030	4.280	3.476	83.21	91.34	94.49	102.36	108.71	88.29
25/50	3.744	4.064	4.188	4.498	4.748	3.944	95.10	103.23	106.38	114.25	120.60	100.18
28/56	4.212	4.532	4.656	4.966	5.216	4.412	106.98	115.11	118.26	126.14	132.49	112.06
30/60	4.524	4.844	4.968	5.278	5.528	4.724	114.91	123.04	126.19	134.06	140.41	119.99
36/72	5.460	5.780	5.904	6.214	6.464	5.660	138.68	146.81	149.96	157.84	164.19	143.76
43/86	6.552	6.872	6.996	7.306	7.556	6.752	166.42	174.55	177.70	185.57	191.92	171.50

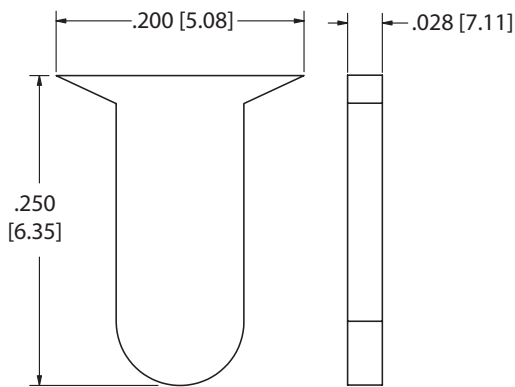
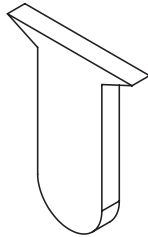


ALL KEYS ORDERED SEPARATELY

IN BETWEEN CONTACT KEY

P/N: 04-0001-000

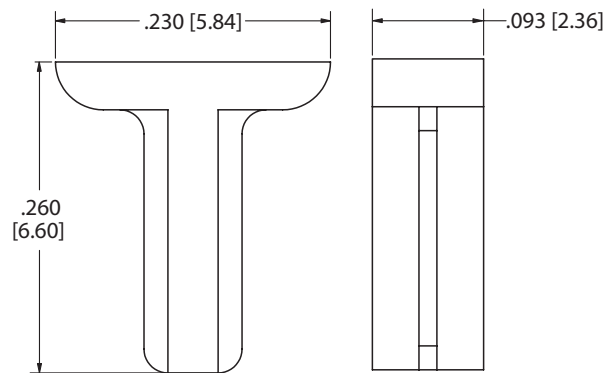
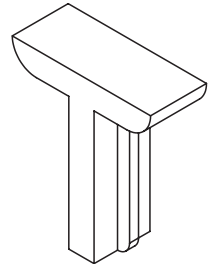
SULLINS PART: PLM-K1



IN CONTACT KEY

P/N: 04-0002-000

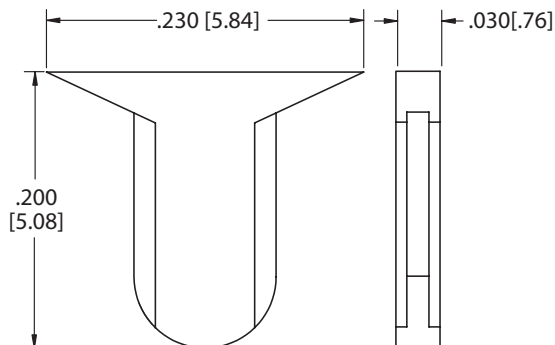
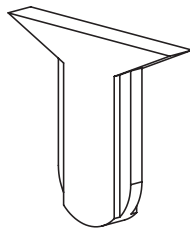
SULLINS PART: PLM-K2



IN BETWEEN CONTACT KEY

P/N: 04-0003-000

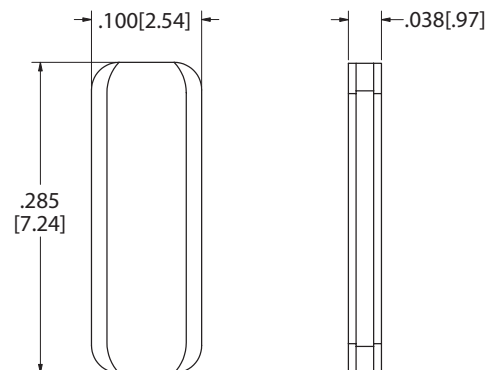
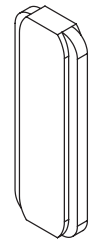
SULLINS PART: PLA-K1



IN BETWEEN CONTACT KEY

P/N: 04-0004-000

SULLINS PART: PLC-K1





Now it is faster and easier to identify connectors when you only have a part number. Simply use your part number to find the pages containing more information about your connector in this catalog and then contact us to place an order.

The underscore sign represents design variations in the part number coding. For example: if your part number is **EBA10DCAS**, you would look for **__A__DCA_**, which is on pages 50-51.

SULLINS EDGE CARDS AND HEADERS

Sullins Part Number	Page	Sullins Part Number	Page	Sullins Part Number	Page
__A__DCA_	50-51	__A__DTK_ -S288	50-51	__B66DHF_ -S578	18-19
__A__DCB_	50-51	__A__DTM_	50-51	__B66DHF_ -S621	18-19
__A__DCC_	50-51	__A__DTM_ -S273	52-53	__B66DHH_ -S578	18-19
__A__DCK_	50-51	__A__DTM_ -S664	52-53	__B66DHH_ -S621	18-19
__A__DCK_ -S288	50-51	__B__DHA_	16-17	__B66DHL_ -S578	18-19
__A__DCM_	50-51	__B__DHB_	16-17	__B66DHL_ -S621	18-19
__A__DCM_ -S288	50-51	__B__DHF_	14-15	__B66DHN_ -S578	18-19
__A__DCS_	50-51	__B__DHH_	14-15	__B66DHN_ -S621	18-19
__A__DCS_ -S288	50-51	__B__DHL_	14-15	__B66DHR_ -S578	18-19
__A__DCT_	50-51	__B__DHN_	14-15	__B66DHR_ -S621	18-19
__A__DCT_ -S288	50-51	__B__DHR_	14-15	__B91DHA_ -S621	20-21
__A__DCW_	50-51	__B__DKB_	28-29	__B91DHB_ -S621	20-21
__A__DCW_ -S288	50-51	__B__DKB_ -S1075	28-29	__B91DHF_ -S578	18-19
__A__DRA_	48-49	__B__DKB_ -S1076	28-29	__B91DHF_ -S621	18-19
__A__DRA_ -S734	48-49	__B__DLR_	26-27	__B91DHH_ -S578	18-19
__A__DRE_	48-49	__B__DLT_	26-27	__B91DHH_ -S621	18-19
__A__DRE_ -S13	48-49	__B56DHA_ -S621	20-21	__B91DHL_ -S578	18-19
__A__DRE_ -S734	48-49	__B56DHB_ -S621	20-21	__B91DHL_ -S621	18-19
__A__DRJ_	48-49	__B56DHF_ -S578	18-19	__B91DHN_ -S578	18-19
__A__DRJ_ -S734	48-49	__B56DHF_ -S621	18-19	__B91DHN_ -S621	18-19
__A__DRM_	50-51	__B56DHH_ -S578	18-19	__B91DHR_ -S578	18-19
__A__DRM_ -S273	52-53	__B56DHH_ -S621	18-19	__B91DHR_ -S621	18-19
__A__DRM_ -S288	50-51	__B56DHL_ -S578	18-19	__B92DHA_ -S250	24-25
__A__DRM_ -S664	52-53	__B56DHL_ -S621	18-19	__B92DHA_ -S329	24-25
__A__DRS_	50-51	__B56DHN_ -S578	18-19	__B92DHB_ -S250	24-25
__A__DRS_ -S273	52-53	__B56DHN_ -S621	18-19	__B92DHB_ -S329	24-25
__A__DRS_ -S288	50-51	__B56DHR_ -S578	18-19	__B92DHF_ -S250	22-23
__A__DRS_ -S664	52-53	__B56DHR_ -S621	18-19	__B92DHF_ -S329	22-23
__A__DRT_	48-49	__B60DHA_ -S621	24-25	__B92DHF_ -S330	22-23
__A__DRT_ -S13	48-49	__B60DHA_ -S793	24-25	__B92DHF_ -S378	22-23
__A__DRT_ -S734	48-49	__B60DHB_ -S621	24-25	__B92DHH_ -S250	22-23
__A__DRX_	48-49	__B60DHB_ -S793	24-25	__B92DHH_ -S329	22-23
__A__DRX_ -S734	48-49	__B60DHF_ -S578	22-23	__B92DHH_ -S330	22-23
__A__DRY_	48-49	__B60DHF_ -S621	22-23	__B92DHH_ -S378	22-23
__A__DRY_ -S13	48-49	__B60DHH_ -S578	22-23	__B92DHL_ -S250	22-23
__A__DRY_ -S734	48-49	__B60DHH_ -S621	22-23	__B92DHL_ -S329	22-23
__A__DTA_	50-51	__B60DHL_ -S578	22-23	__B92DHL_ -S330	22-23
__A__DTA_ -S273	52-53	__B60DHL_ -S621	22-23	__B92DHL_ -S378	22-23
__A__DTA_ -S664	52-53	__B60DHN_ -S578	22-23	__B92DHN_ -S250	22-23
__A__DTB_	50-51	__B60DHN_ -S621	22-23	__B92DHN_ -S329	22-23
__A__DTB_ -S273	52-53	__B60DHR_ -S578	22-23	__B92DHN_ -S330	22-23
__A__DTB_ -S664	52-53	__B60DHR_ -S621	22-23	__B92DHR_ -S250	22-23
__A__DTE_	48-49	__B66DHA_ -S621	20-21	__B92DHR_ -S329	22-23
__A__DTE_ -S734	48-49	__B66DHB_ -S621	20-21		
__A__DTK_	50-51				



PART NUMBER INDEX, Cont.

Sullins Part Number	Page	Sullins Part Number	Page	Sullins Part Number	Page
-- B92DHR --S330	22-23	-- C -- DJG --	36-37	-- C -- DRX --S734	32-33
-- B92DHR --S378	22-23	-- C -- DJW --	36-37	-- C -- DRY --	32-33
-- B106DHA --S621	20-21	-- C -- DJX --	36-37	-- C -- DRY --S13	32-33
-- B106DHB --S621	20-21	-- C -- DJY --	36-37	-- C -- DRY --S93	34-35
-- B106DHF --S578	18-19	-- C -- DJZ --	36-37	-- C -- DRY --S734	32-33
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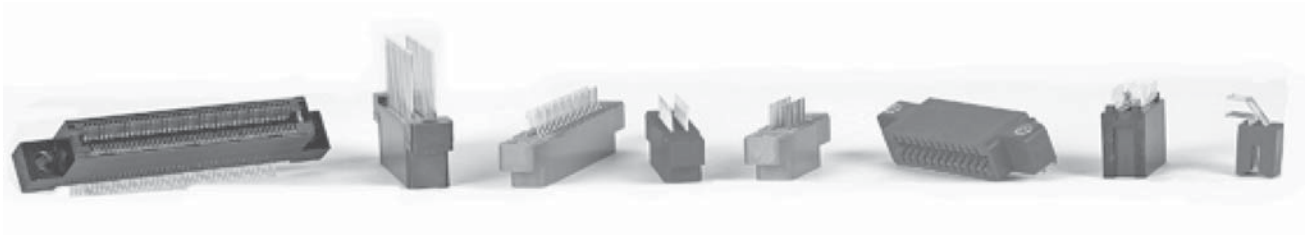


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A BRAND NEW SULLINS

2008 is an exciting year for Sullins as we strive to become a more customer-driven and competitive company offering a wider spectrum of products and services than ever before. To achieve this goal, we are rebranding our company from the inside out. In the coming months, you'll be experiencing some new and revitalized results of our rebranding efforts in your interactions with Sullins. Below are just a few highlights we'd like to share with you:

New Logo

Sullins' fresh new logo symbolizes our transformation into a more modern and streamlined company in order to serve customers like you more effectively. Our new tagline, "Connector Solutions" brings more focus and clarity in communicating our business to all audiences.

New Catalog

Our 2008 catalog is the largest ever, combining products from Sullins and Micro Plastics into one convenient reference. We hope our newly designed, comprehensive catalog is easy to use and provides all the information you need for your connector solutions.

New Web Site — Coming Summer 2008

Sullins is developing a brand new Web site to communicate and conduct business more effectively with online customers. The new, invigorated design will help online customers navigate the site easily, learn about new products better, find products quickly, understand our connector design process more thoroughly, purchase standard connectors from our online store, and much, much more!

GO THE DISTANCE

At Sullins, we go the distance to meet our customers' needs. But don't take our word for it. Here are what some customers have to say about our products and services.

*"You are awesome. I can always count on you to have the quotes in an hour or two.
You are timely and efficient, a pleasure to do business with."
-Jackie Feight, Heilind Electronics*

*"Sullins' response turnaround, accuracy and attention to detail is beyond impressive.
Simply amazing!"
-Paul Alexandrescu, Product Cost Engineering*

*"Man that was fast! Like how you work, girl. THANKS!!!!!!"
-Johnny Q. Guerrero, Ital Electronics*

*"You're the best."
-Erik Wisesa, Bisco Industries*

WE VALUE YOUR FEEDBACK

Your input is important to us as we continue to grow and become a better company. Please feel free to share any notable feedback or suggestions with us by e-mailing feedback@sullinscorp.com.