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Sullins D-SUB

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D-Sub Solder Type - 100 SERIES

SPECIFICATIONS

Material

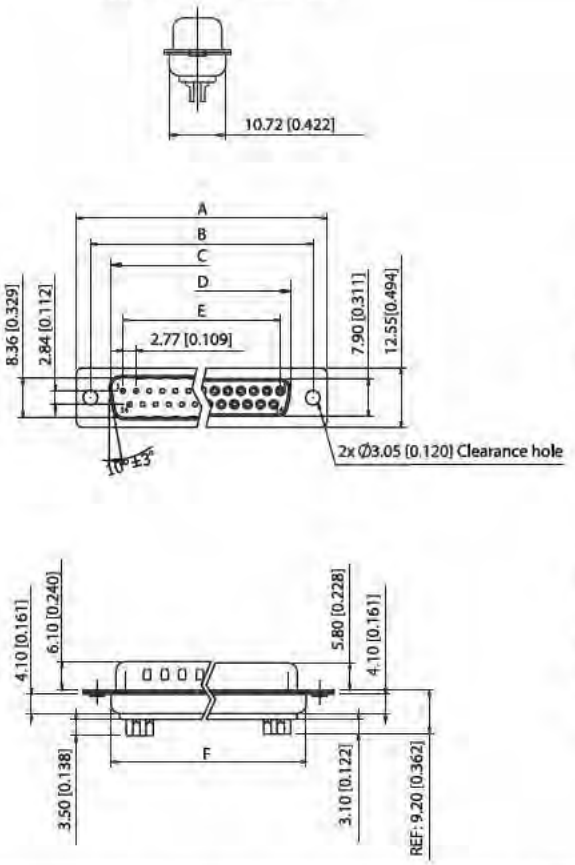
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

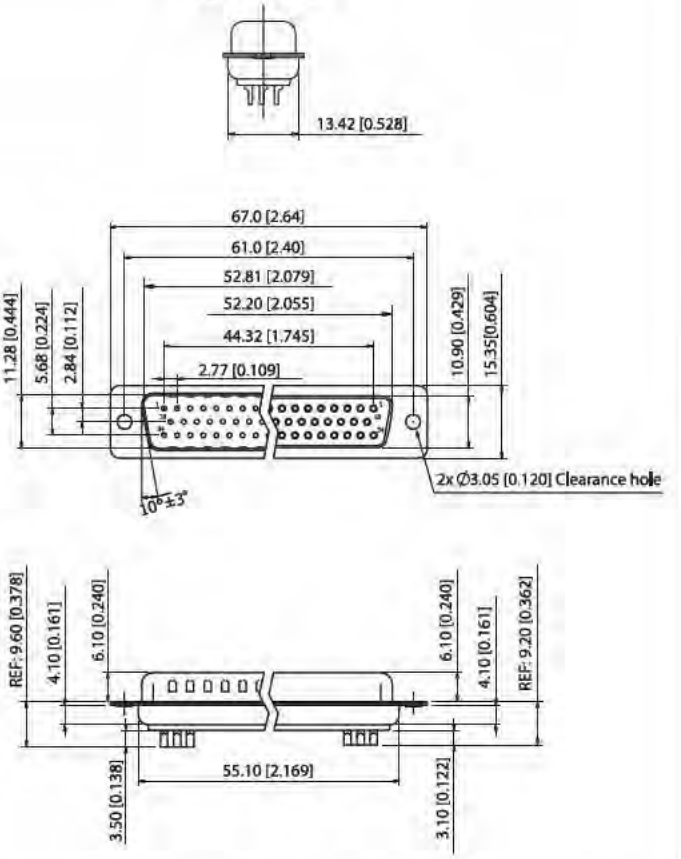
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

D-Sub Solder Type - SDS100 SERIES

PART NUMBER OPTIONS

SDS100-PR - - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
0. $Cr^{+}3$ Yellow Chrome
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome
4. Gold Flash
5. Tin without Dimple
6. $Cr^{+}6$ Yellow Chrome, With Dimple

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS
50 : 50 POSITIONS

INSULATOR COLOR
1.Black (Standard) 2.Blue
3.Green 6.White

POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL)
0. 3.05mm [.120] Clearance Hole
1. Front Rivet, 5.9mm[0.23]
2. Rear Rivet, 5.9mm[0.23]
3. Rivet+2 Prong Boardlock ∅3.2 x 6.0 L [0.13 x 0.24]

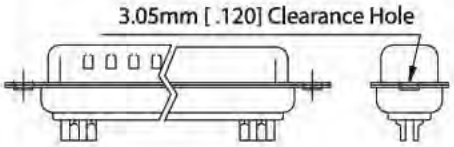
FLANGE MOUNTING OPTION
0. ∅3.05mm [∅.120] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Installed
9. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Bulk-Packed
4. M3 Female Thread
5. M3 (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed

FERRITE
N : Without Ferrite

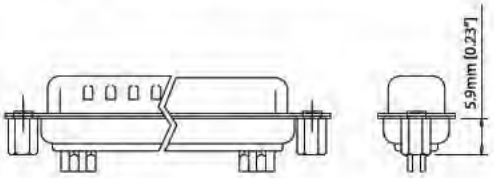
PIN TYPE
S : STAMPED PIN
M : MACHINED PIN

POSITION OF CLINCH NUT Consult sales or factory for other mounting style options

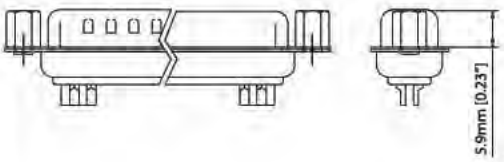
0. 3.05mm [.120] Clearance Hole



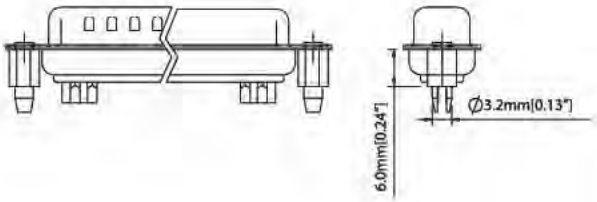
2. Rear Rivet, 5.9mm[0.23]



1. Front Rivet, 5.9mm[0.23]



3. Rivet+2 Prong Boardlock ∅3.2 x 6.0 L [0.13 x 0.24]



D-Sub Dip Straight Type - 101 SERIES

SPECIFICATIONS

Material

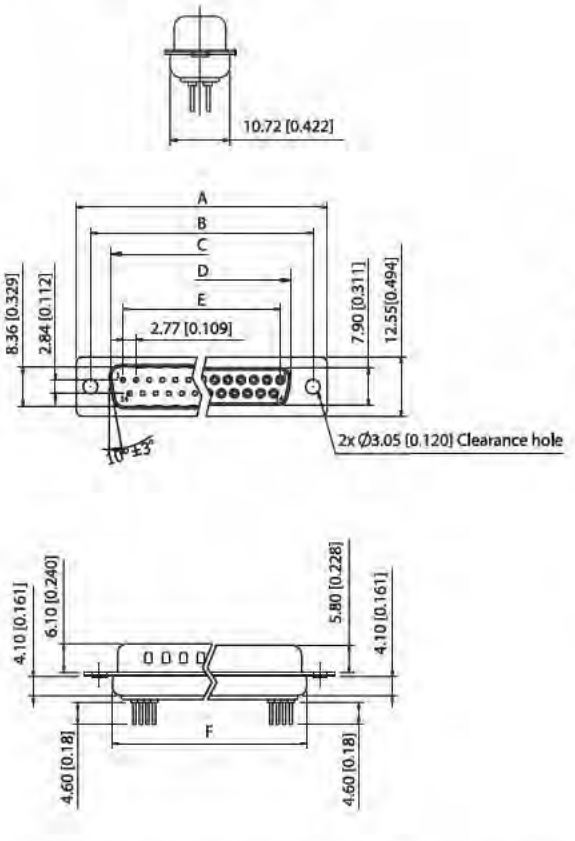
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

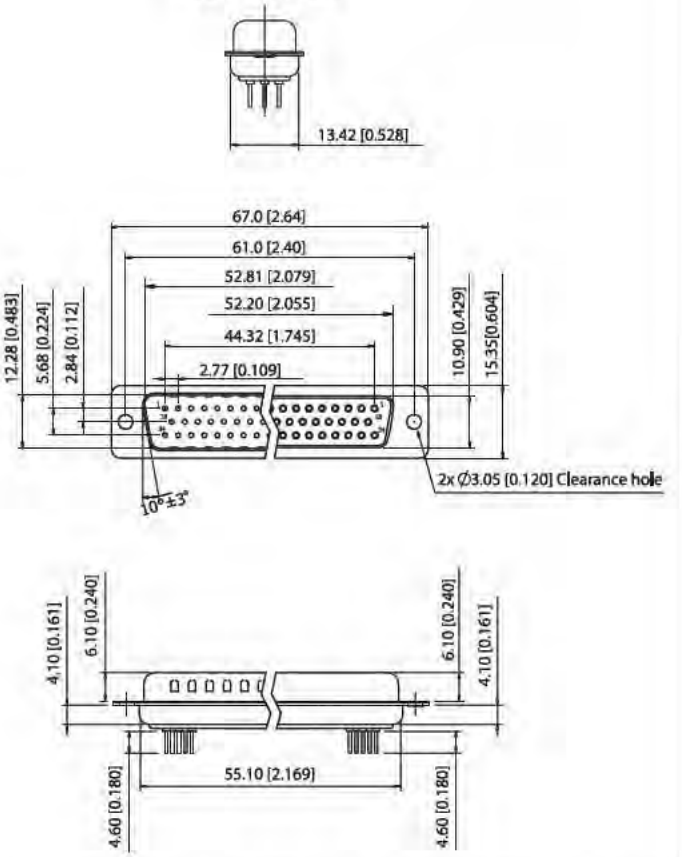
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

D-Sub Dip Straight Type - 101 SERIES

PART NUMBER OPTIONS

SDS101-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
0. $Cr^{+}3$ Yellow Chrome
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome
4. Gold Flash

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS
50 : 50 POSITIONS

INSULATOR COLOR
1.Black (Standard) 2.Blue
6.White

POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL)
0. Ø3.05mm [.120] Clearance Hole
1. Front Rivet, 5.9mm[0.23]
2. Rear Rivet, 5.9mm[0.23]
3. Rivet+2 Prong Boardlock Ø3.2 x 6.0 L [0.13 x 0.24]

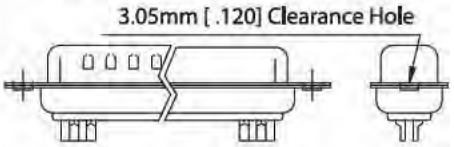
FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Installed
9. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Bulk-Packed
4. M3 Female Thread
5. M3 (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed

FERRITE
N : Without Ferrite

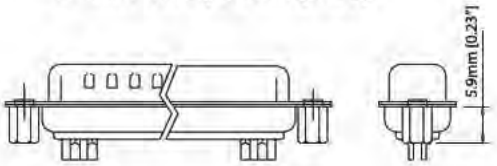
PIN TYPE
S : STAMPED PIN
M : MACHINED PIN

POSITION OF CLINCH NUT Consult sales or factory for other mounting style options

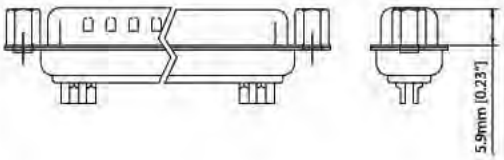
0. 3.05mm [.120] Clearance Hole



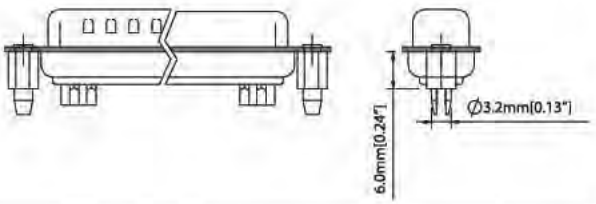
2. Rear Rivet, 5.9mm[0.23]



1. Front Rivet, 5.9mm[0.23]

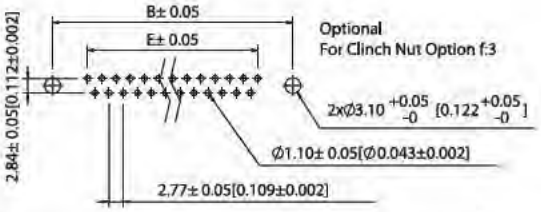


3. Rivet+2 Prong Boardlock Ø3.2 x 6.0 L [0.13 x 0.24]

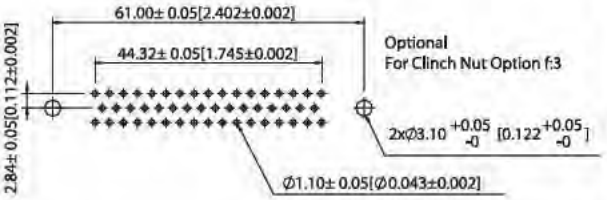


RECOMMENDED PCB LAYOUT

9,15,25,37 Positions



50 Positions



D-Sub IDC Type - 103 SERIES

SPECIFICATIONS

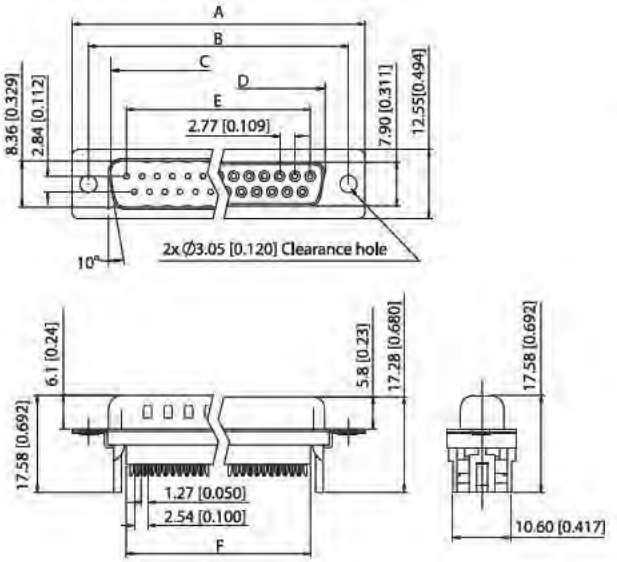
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

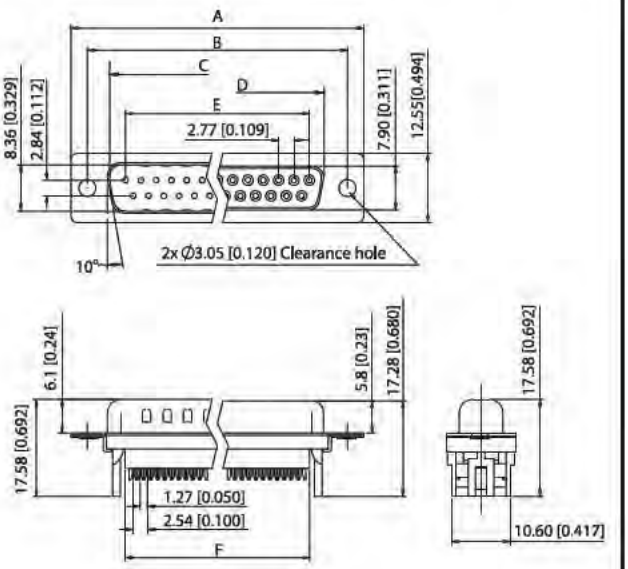
Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

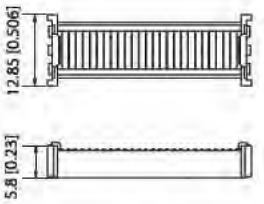
DIMENSIONS



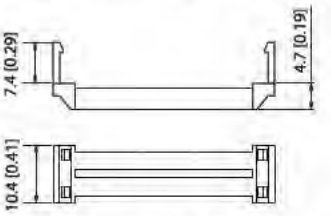
Without Insulator Support



With Insulator Support



COVER



Strain Relief
Optional See P/N Coding

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

PART NUMBER OPTIONS

SDS103-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
1. Nickel
2. Tin (Standard)

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS

INSULATOR COLOR
1.With Insulator Support 2.W/O Insulator Support

SR TYPE
1: Plastic Strain Relief
2: Metal Shell Strain Relief
3: Without Strain Relief

INSULATOR COLOR
1: Black (Standard) 2: Blue

POSITION OF CLINCH NUT
0. Ø3.05mm [.120] Clearance Hole
5. Rear Rivet, 4.0mm[0.16]

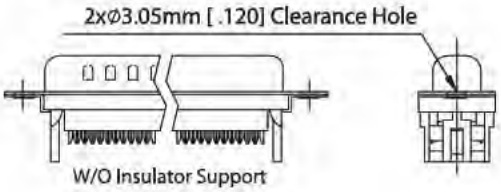
FLANGE MOUNTING OPTION
(REFER TO BELOW FIGURE FOR DETAIL)
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 Female Thread
4. M3 Female Thread
7. M2.6 Female Thread
A. #4-40 Female Thread: 4.0mm[0.16]

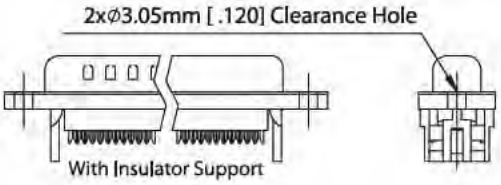
FERRITE
N : Without Ferrite

PIN TYPE
S : STAMPED PIN

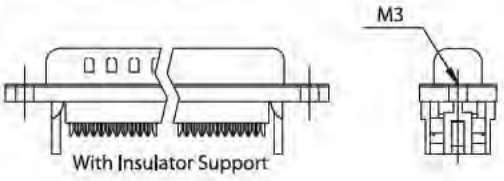
FLANGE MOUNTING OPTION Consult sales or factory for other mounting style options

0. 3.05mm [.120] Clearance Hole

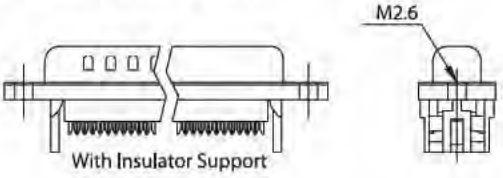




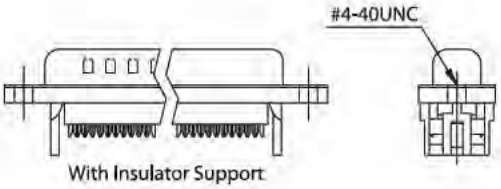
4. M3 Female Thread



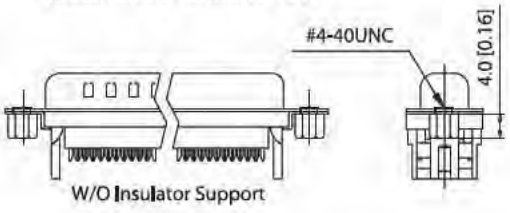
7. M2.6 Female Thread



1. #4-40 Female Thread



A. #4-40 Female Thread: 4.0mm[0.16] (Rear Rivet, 4.0mm[0.16])



D-Sub HD Solder Type - 104 SERIES

SPECIFICATIONS

Material

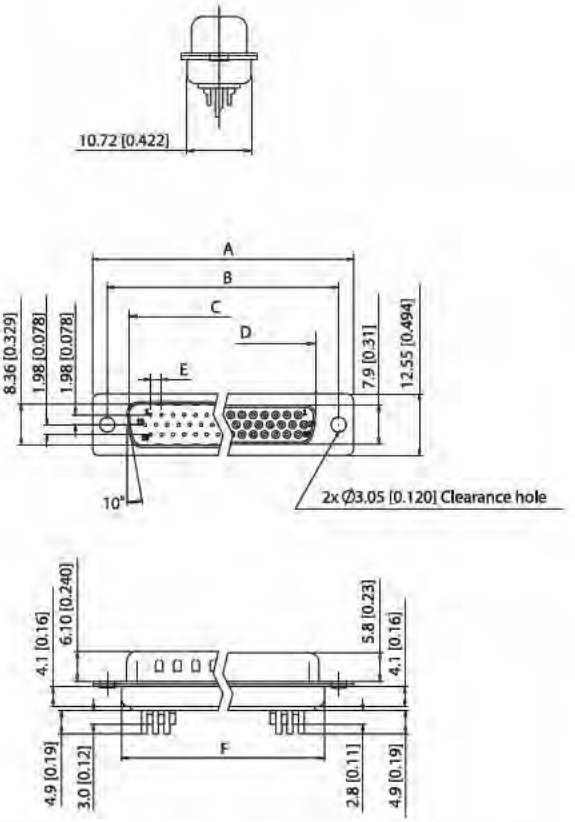
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

Electrical

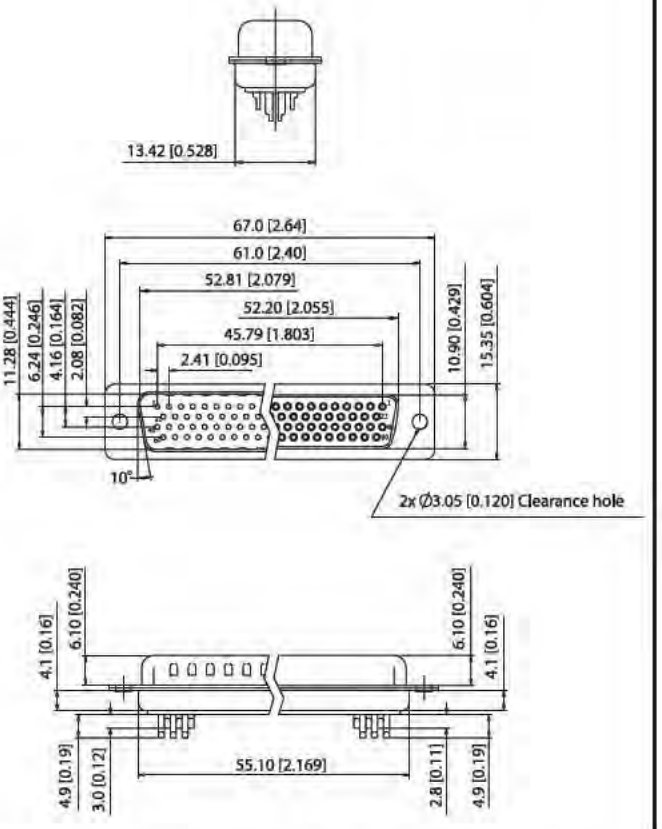
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

15, 26, 44, 62 Positions



78 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

D-Sub HD Solder Type - 104 SERIES

PART NUMBER OPTIONS

SDS104-PR - - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
1. Nickel
2. Tin (Standard)

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
15 : 15 POSITIONS
26 : 26 POSITIONS
44 : 44 POSITIONS
62 : 62POSITIONS
78 : 78 POSITIONS

INSULATOR COLOR
1.Black (Standard) 2.Blue
6.White

POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL)
0. Ø3.05mm [.120] Clearance Hole
1. Front Rivet, 5.9mm[0.23]
2. Rear Rivet, 5.9mm[0.23]
3. Rivet+2 Prong Boardlock Ø3.2 x 6.0 L [0.13 x 0.24]

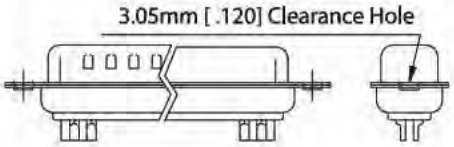
FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø.120] Clearance Hole
1. #4-40 Female Thread
2. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Installed
3. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Bulk-Packed
4. M3 Female Thread

FERRITE
N : Without Ferrite

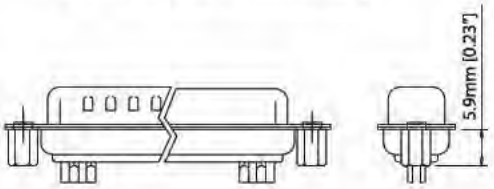
PIN TYPE
S : STAMPED PIN
M : MACHINED PIN

POSITION OF CLINCH NUT Consult sales or factory for other mounting style options

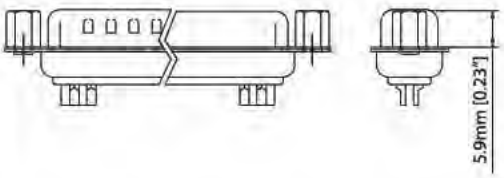
0. 3.05mm [.120] Clearance Hole



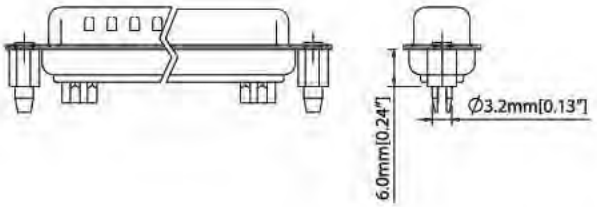
2. Rear Rivet, 5.9mm[0.23]



1. Front Rivet, 5.9mm[0.23]



3. Rivet+2 Prong Boardlock Ø3.2 x 6.0 L [0.13 x 0.24]



D-Sub Right Angle Type - 107 SERIES

SPECIFICATIONS

Material

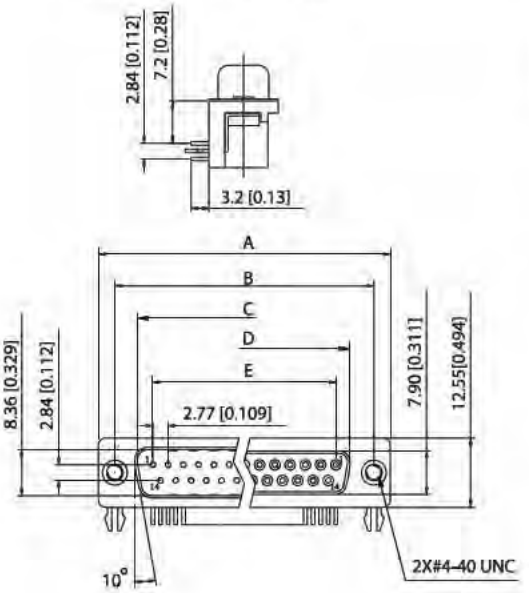
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

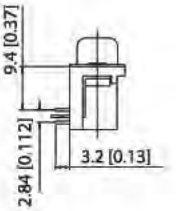
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 7.2mm[0.28"] , 9.4mm[0.37"] , 13.84mm[0.545"] Footprint

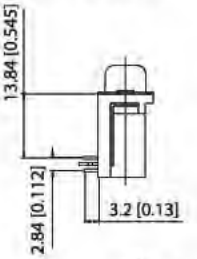
7.2mm[0.28"] Footprint

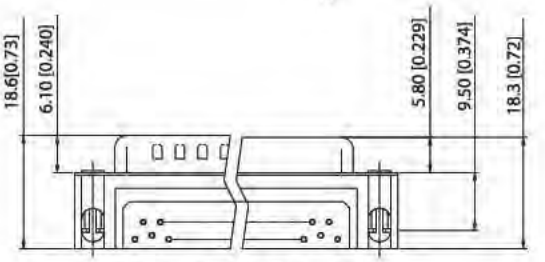


9.4mm[0.37"] Footprint

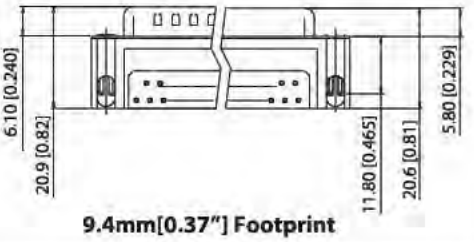


13.84mm[0.545"] Footprint

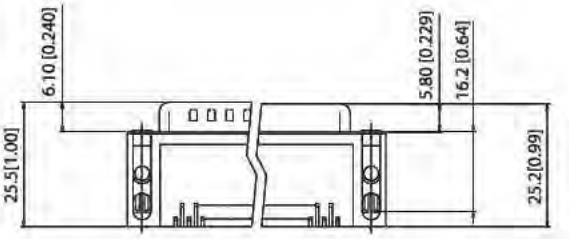




7.2mm[0.28"] Footprint



9.4mm[0.37"] Footprint



13.84mm[0.545"] Footprint

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	11.08	0.436
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	19.39	0.763
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	33.24	1.309
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	49.86	1.963

D-Sub Right Angle Type - 107 SERIES

SPECIFICATIONS

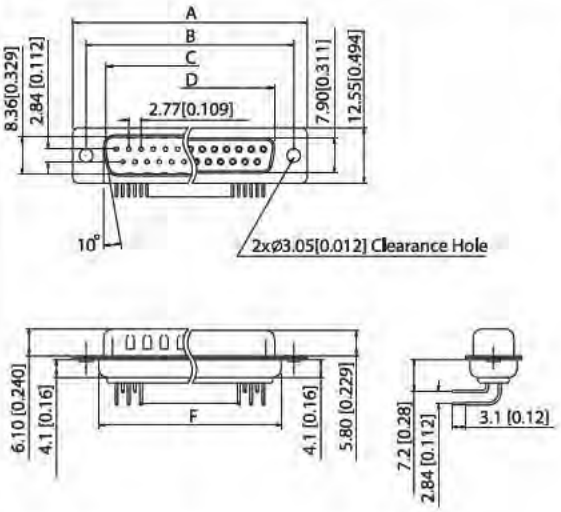
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

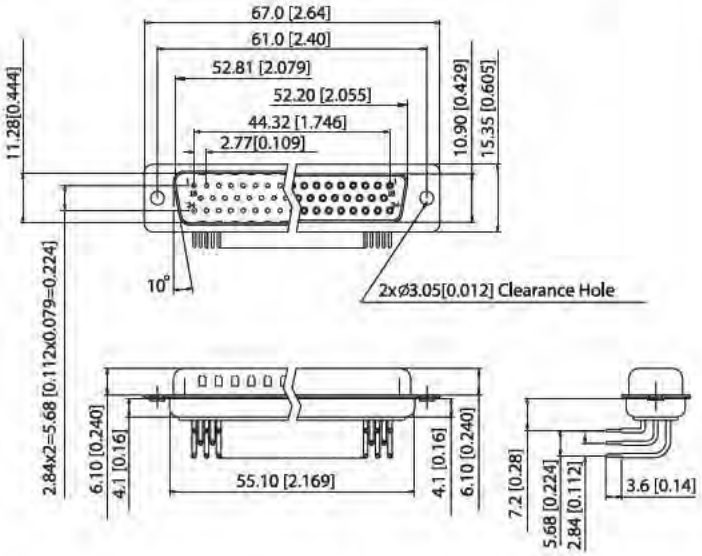
Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover) & 50 Positions Machined Pin (W/O Rear Cover)



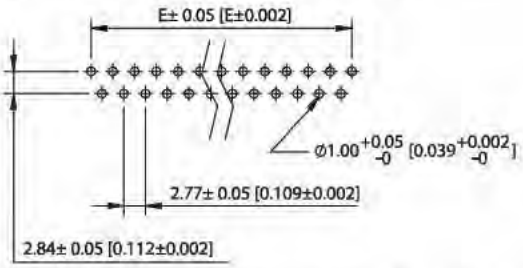
7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)



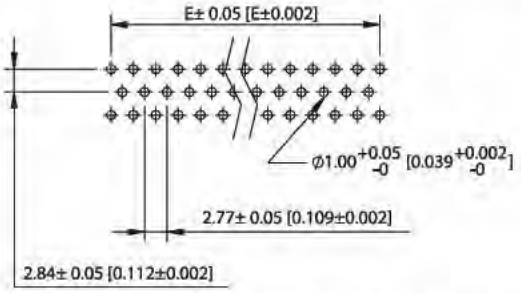
50 Positions Machined Pin (W/O Rear Cover)

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT



7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)



50 Positions Machined Pin (W/O Rear Cover)

D-Sub Right Angle Type - 107 SERIES

SPECIFICATIONS

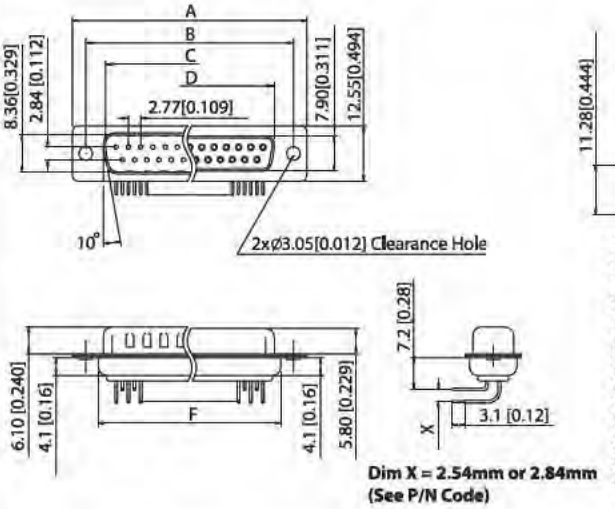
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

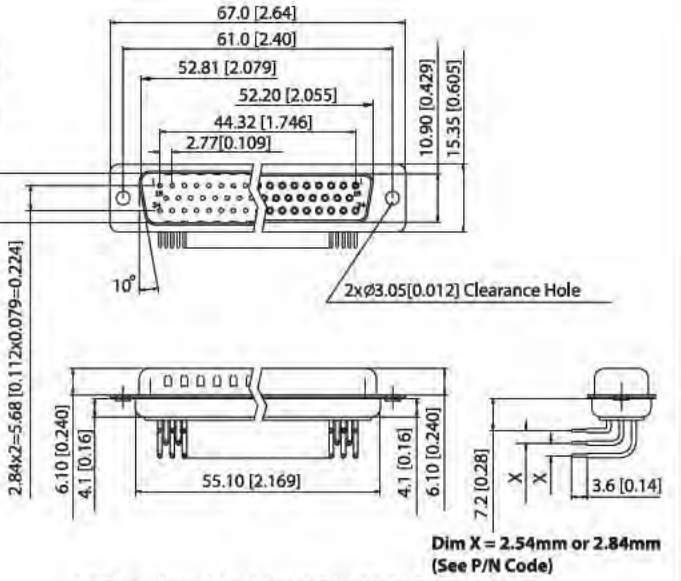
Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 9.4mm[0.37"] Footprint Machined Pin (W/O Rear Cover) & 50 Positions Machined Pin (W/O Rear Cover)



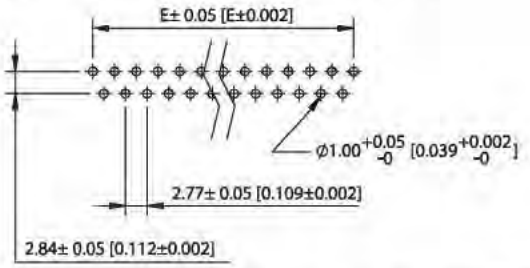
9.4mm[0.37"] Footprint Machined Pin (W/O Rear Cover)



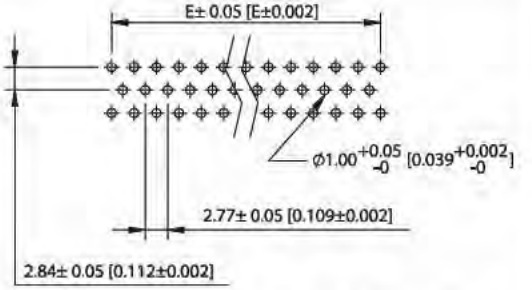
50 Positions Machined Pin (W/O Rear Cover)

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT



7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)



50 Positions Machined Pin (W/O Rear Cover)

D-Sub Right Angle Type - 107 SERIES

PART NUMBER OPTIONS

SDS107-PR - - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.
N = .000050" Gold On Contact Surface, .000100"Pure Tin On Termination.
P = Gold Flash Overall

SHELL PLATING
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome
4. Gold Flash

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS
50 : 50 POSITIONS

FOOTPRINT
1: 7.2mm [0.28"] Footprint
2: 9.4mm [0.37"] Footprint
3: 13.84mm [0.545"] Footprint

INSULATOR COLOR
1: Black (Standard) 2: Blue

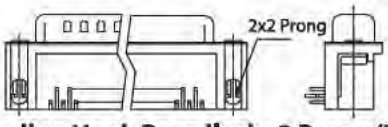
RIVET OPTIONS (REFER TO BELOW FIGURE FOR DETAIL)
0. None 1. Grounding Strap #4-40 Threaded on PANEL
2. Grounding Strap #4-40 Threaded on PCB & PANEL
3. Grounding Hook Boardlock+2 Prong (Tin)

FLANGE MOUNTING OPTION (REFER TO BELOW FIGURE FOR DETAIL)
1. #4-40 Female Thread
2. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed
3. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Bulk-Packed
**6. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed
** Remove Screwlock to Disassemble Boardlock Bracket

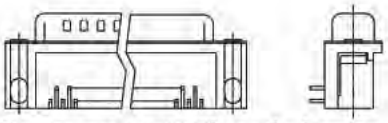
FERRITE
N : Without Ferrite

PIN TYPE
S : STAMPED PIN
M : MACHINED PIN

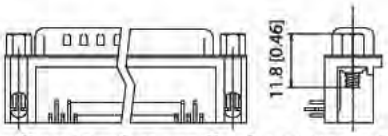
RIVET OPTIONS & FLANGE MOUNTING OPTION



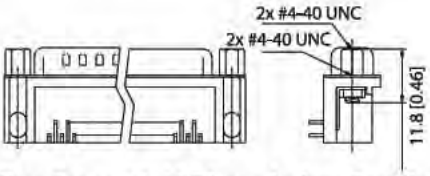
Grounding Hook Boardlock+2 Prong (Tin)
(#4-40 Female Thread)



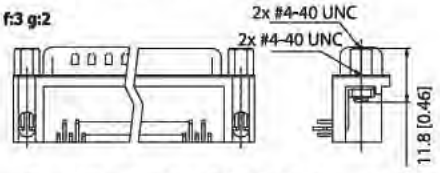
Grounding Strap #4-40 Threaded on Spelling
(#4-40 Female Thread)



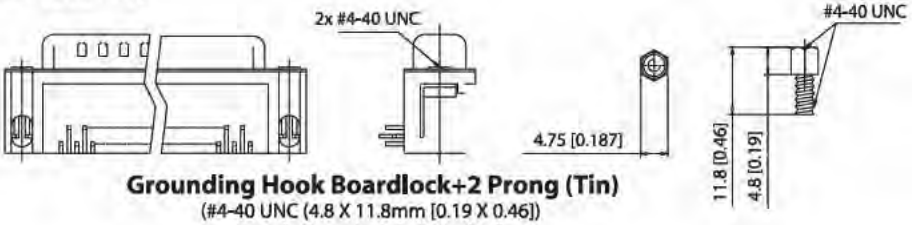
Grounding Hook Boardlock+2 Prong (Tin)
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Strap #4-40 Threaded on Spelling
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Hook Boardlock+2 Prong (Tin)
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Hook Boardlock+2 Prong (Tin)
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Bulk-Packed)

MICROPLASTICS SULLINS

D-Sub H.D. Right Angle Type - 108 SERIES

SPECIFICATIONS

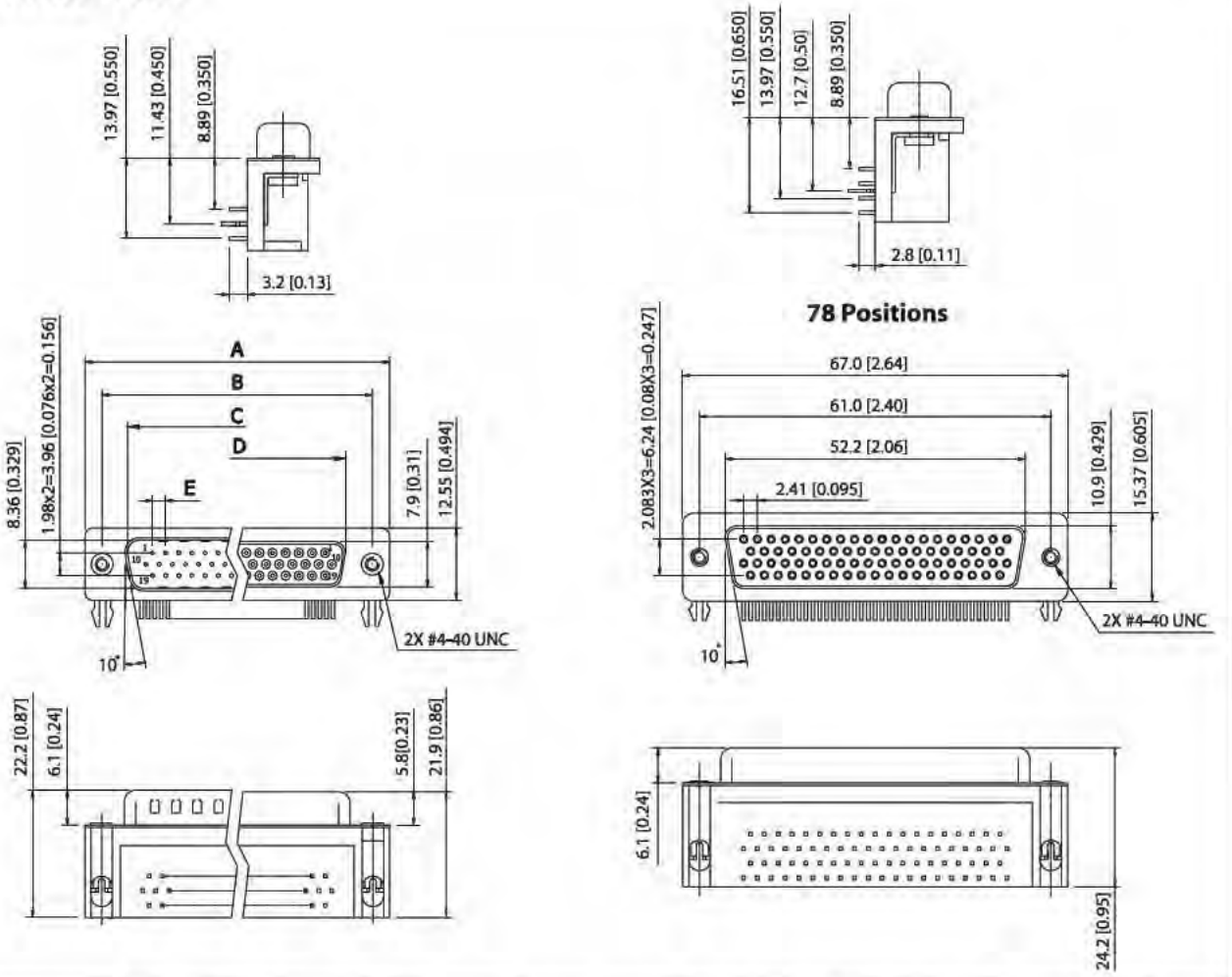
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS



Positions	A		B		C		D		E		F		G	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	2.29	0.090	7.04	0.277	1.145	0.045
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	2.29	0.090	7.04	0.277	1.145	0.045
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	2.29	0.090	7.04	0.277	1.145	0.045
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	2.41	0.065	7.00	0.276	1.205	0.040

D-Sub H.D. Right Angle Type - 108 SERIES

PART NUMBER OPTIONS

SDS108-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.
N = .000050" Gold On Contact Surface, .000100"Pure Tin On Termination.
P = Gold Flash Overall

SHELL PLATING
1. Nickel
2. Tin (Standard)

CONTACT TYPE
M : MALE F : FEMALE

NO. OF PINS
15 : 15 POSITIONS 26 : 26 POSITIONS
44 : 44 POSITIONS 62 : 62POSITIONS
78 : 78 POSITIONS

INSULATOR COLOR
1.Black (Standard) 2.Blue

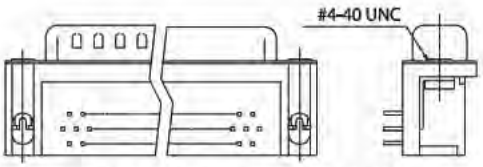
RIVET OPTIONS (REFER TO BELOW FIGURE FOR DETAIL)
0. None
1. Grounding Strap #4-40 Threaded On Panel
2. Grounding Strap #4-40 Threaded On PCB & Panel
3. Grounding Hook Boardlock+2 Prong

FLANGE MOUNTING OPTION (REFER TO BELOW FIGURE FOR DETAIL)
1. #4-40 Female Thread
2. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed
3. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Bulk-Packed
** 6. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed
** Remove Screwlock to Disassemble Boardlock Bracket

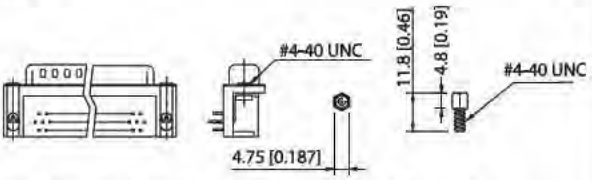
FERRITE
N : Without Ferrite

PIN TYPE
S : STAMPED PIN
M : MACHINED PIN

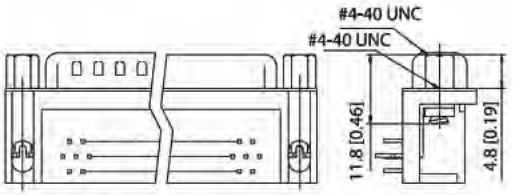
RIVET OPTIONS & FLANGE MOUNTING OPTION



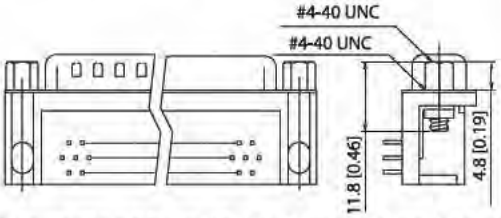
Grounding Hook Boardlock+2 Prong
(#4-40 Female Thread)



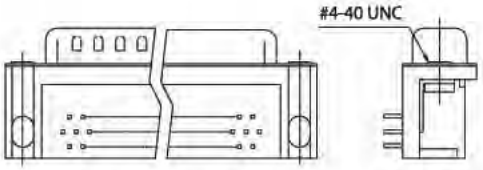
Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Bulk-Packed)



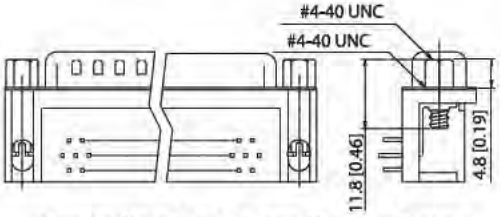
Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Strap #4-40 Threaded on Panel
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Strap #4-40 Threaded on Panel
(#4-40 Female Thread)



Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)

D-Sub High Profile Straight Type - 155 SERIES

SPECIFICATIONS

Material

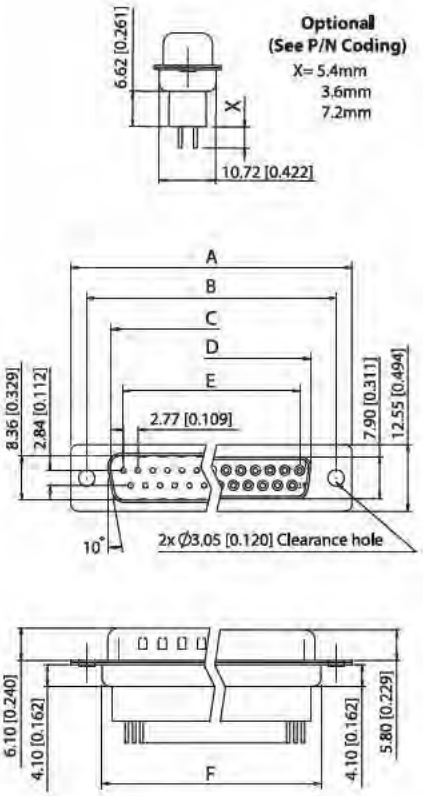
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

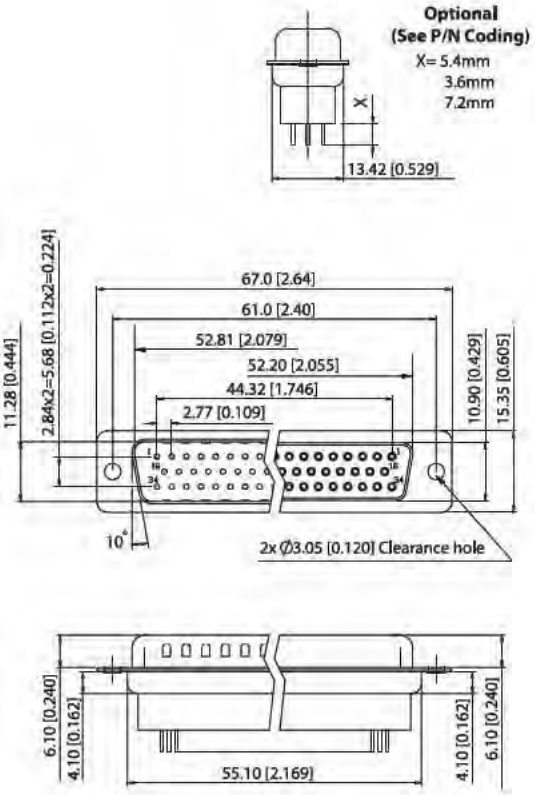
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

D-Sub High Profile Straight Type - 155 SERIES

PART NUMBER OPTIONS

SDS155-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
0. $Cr^{+}3$ Yellow Chrome
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS
50 : 50 POSITIONS

INSULATOR COLOR
1.Black (Standard)

RIVET OPTIONS
(REFER TO BELOW FIGURE FOR DETAIL)
0. Ø3.05mm [.120] Clearance Hole
1. Front Rivet, 5.9mm[0.23]
2. Rear Rivet, 5.9mm[0.23]
4. Boardlock+2 Prong Ø3.0 x 11.0 L [0.12 x 0.43]
6. Boardlock+4 Prong Ø3.0 x 11.0 L [0.12 x 0.43]

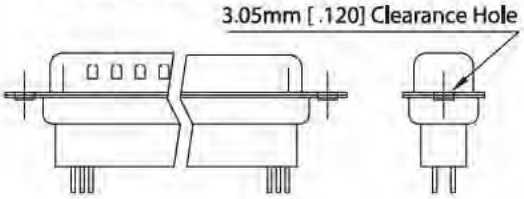
FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Installed
9. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Bulk-Packed

FERRITE
N : Without Ferrite

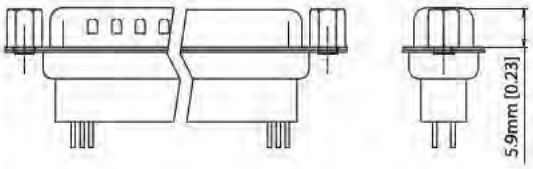
PIN TYPE
S : STAMPED PIN : 5.4mm [0.21]
M : MACHINED PIN : 5.4mm [0.21]
Q : STAMPED PIN : 3.6mm [0.14]
R : STAMPED PIN : 7.2mm [0.28]

RIVET OPTIONS

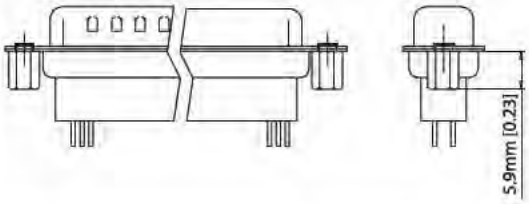
0. 3.05mm [.120] Clearance Hole



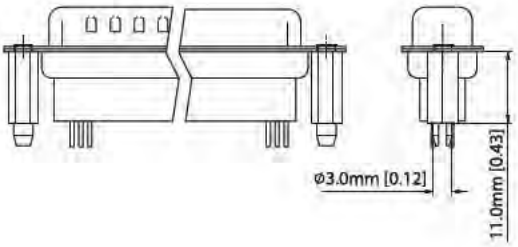
1. Front Rivet, 5.9mm[0.23]



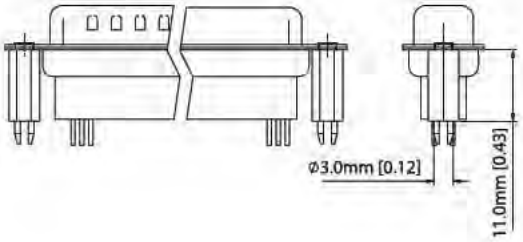
2. Rear Rivet, 5.9mm[0.23]



4. Boardlock+2 Prong Ø3.0 x 11.0 L [0.12 x 0.43]



6. Boardlock+4 Prong Ø3.0 x 11.0 L [0.12 x 0.43]



MICROPLASTICS SULLINS

D-Sub H.D. High Profile PCB Type - 160 SERIES

SPECIFICATIONS

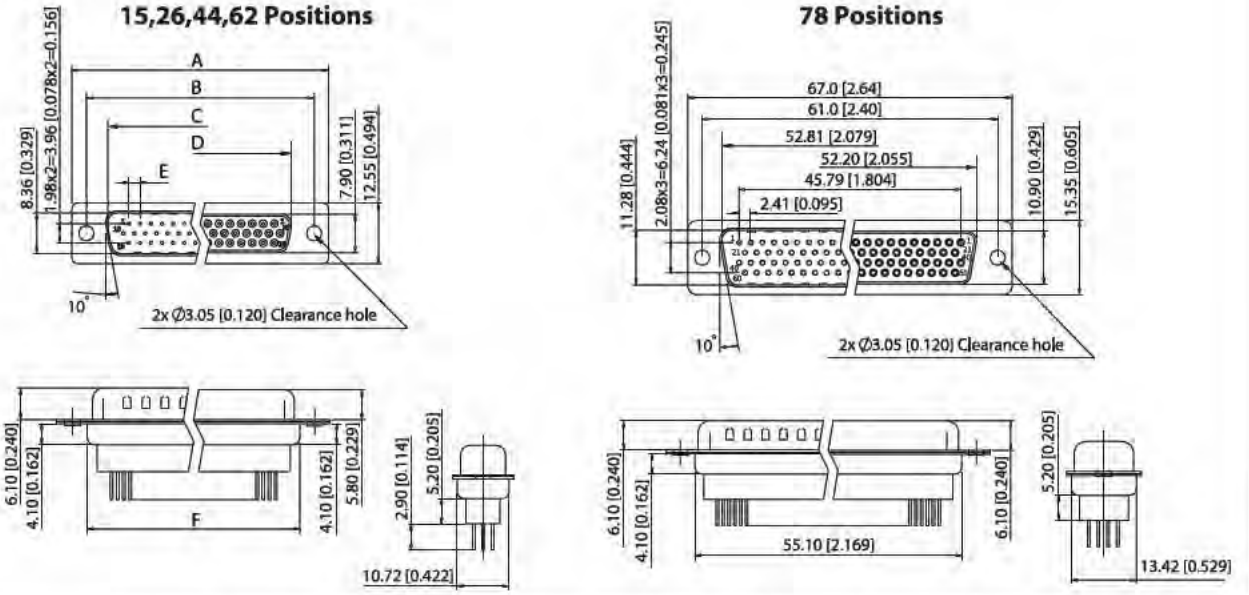
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

Electrical

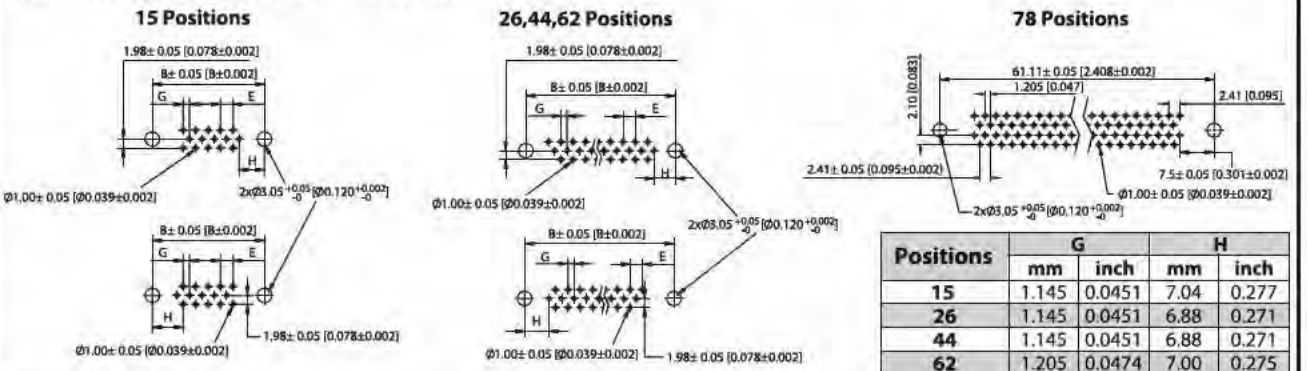
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT



Positions	G		H	
	mm	inch	mm	inch
15	1.145	0.0451	7.04	0.277
26	1.145	0.0451	6.88	0.271
44	1.145	0.0451	6.88	0.271
62	1.205	0.0474	7.00	0.275

D-Sub H.D. High Profile PCB Type - 160 SERIES

PART NUMBER OPTIONS

SDS160-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, .000100"Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
0. $Cr^{+}3$ Yellow Chrome
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
15 : 15 POSITIONS
26 : 26 POSITIONS
44 : 44 POSITIONS
62 : 62 POSITIONS
78 : 78 POSITIONS

INSULATOR COLOR
1.Black 2.Blue

RIVET OPTIONS
(REFER TO BELOW FIGURE FOR DETAIL)
0. Ø3.05mm [.120] Clearance Hole
1. Front Rivet, 5.9mm[0.23]
2. Rear Rivet, 5.9mm[0.23]
4. Boardlock+2 Prong Ø3.0 x 11.0 L [0.12 x 0.43]
6. Boardlock+4 Prong Ø3.0 x 11.0 L [0.12 x 0.43]

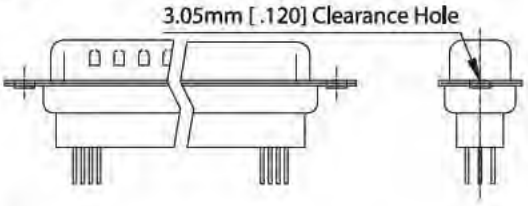
FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 Female Thread
B. #4-40 UNC (5.8 X 11.8mm [0.23 X 0.46]) Female Screwlock Installed
C. #4-40 UNC (5.8 X 11.8mm [0.23 X 0.46]) Female Screwlock Bulk-Packed

FERRITE
N : Without Ferrite

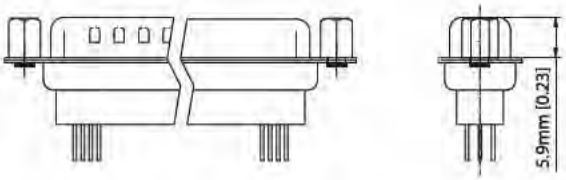
PIN TYPE
S : STAMPED PIN : 5.4mm [0.21]
M : MACHINED PIN : 5.4mm [0.21]
Q : STAMPED PIN : 3.6mm [0.14]
R : STAMPED PIN : 7.2mm [0.28]
T : MACHINED PIN : 7.5mm [0.30]

RIVET OPTIONS

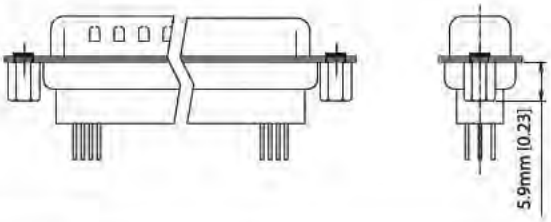
0. 3.05mm [.120] Clearance Hole



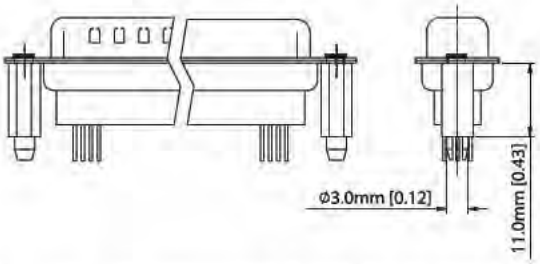
1. Front Rivet, 5.9mm[0.23]



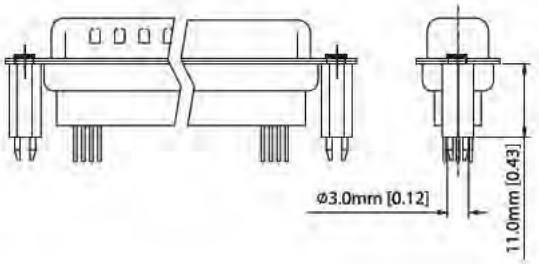
2. Rear Rivet, 5.9mm[0.23]



4. Boardlock+2 Prong Ø3.0 x 11.0 L [0.12 x 0.43]



6. Boardlock+4 Prong Ø3.0 x 11.0 L [0.12 x 0.43]



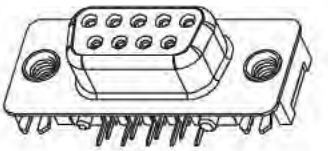
MICROPLASTICS SULLINS

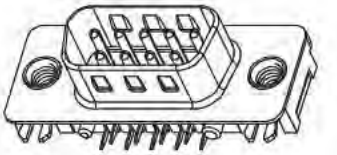
D-Sub Right Angle Slim Type - 223 SERIES

SPECIFICATIONS

Material

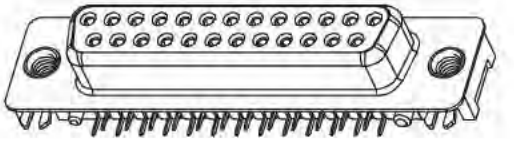
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated



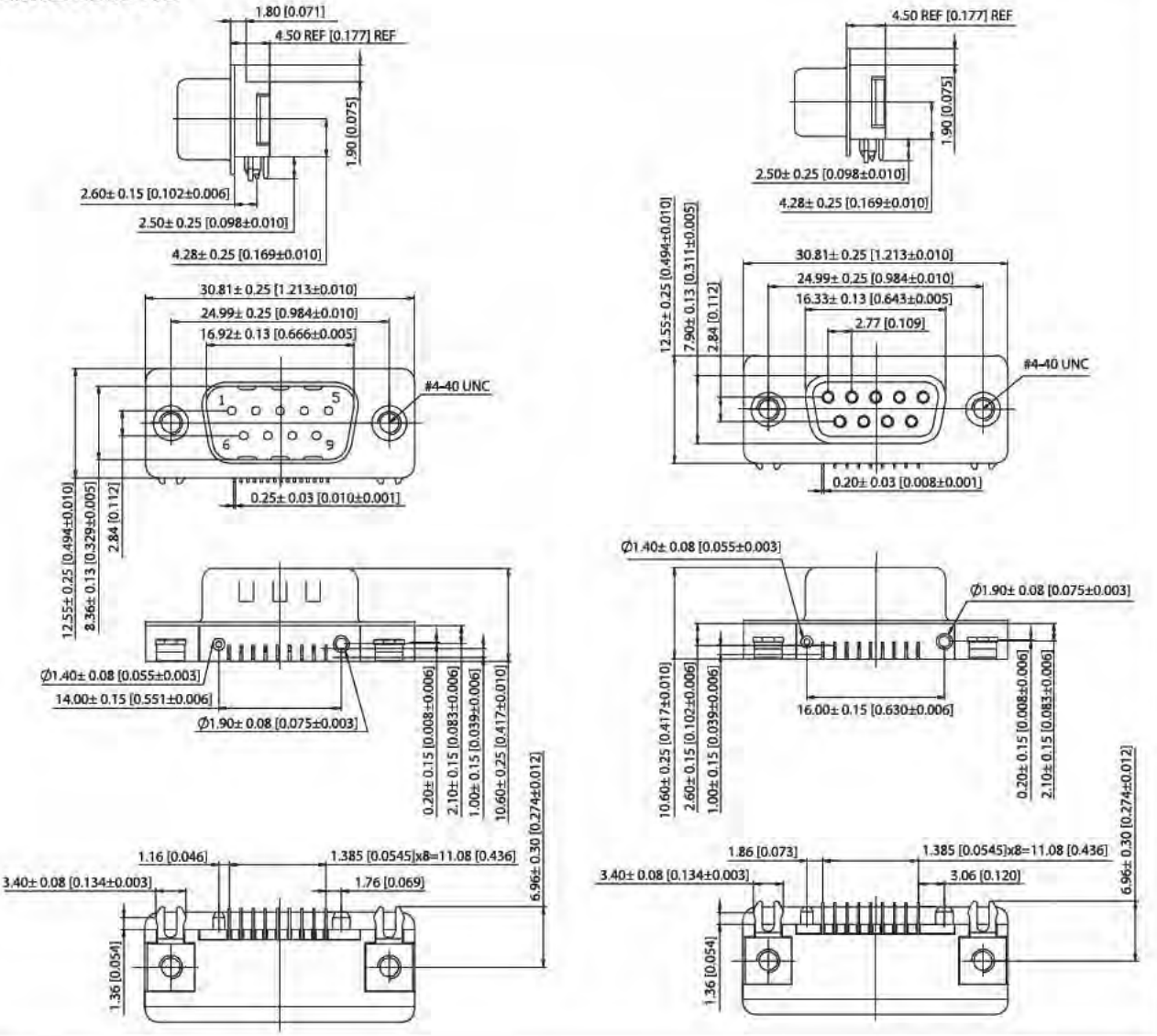


Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz



DIMENSIONS



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D-Sub Right Angle Slim Type - 223 SERIES

PART NUMBER OPTIONS

SDS223-PR - - -

CONTACT PLATING
(All Platings Have .000050" Nickel Underplate)
W = Gold Flash On Contact Surface, Pure Tin On Termination.
B = .000010" Gold On Contact Surface, .000100"Pure Tin On Termination.
U = .000015" Gold On Contact Surface, .000100"Pure Tin On Termination.
C = .000030" Gold On Contact Surface, .000100"Pure Tin On Termination.

SHELL PLATING
0. $Cr^{+}3$ Yellow Chrome
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome

CONTACT TYPE
M : MALE
F : FEMALE

NO. OF PINS
09 : 09 POSITIONS
25 : 25 POSITIONS (FEMALE)

INSULATOR COLOR
1.Black
2.Blue (Standard)
3.White

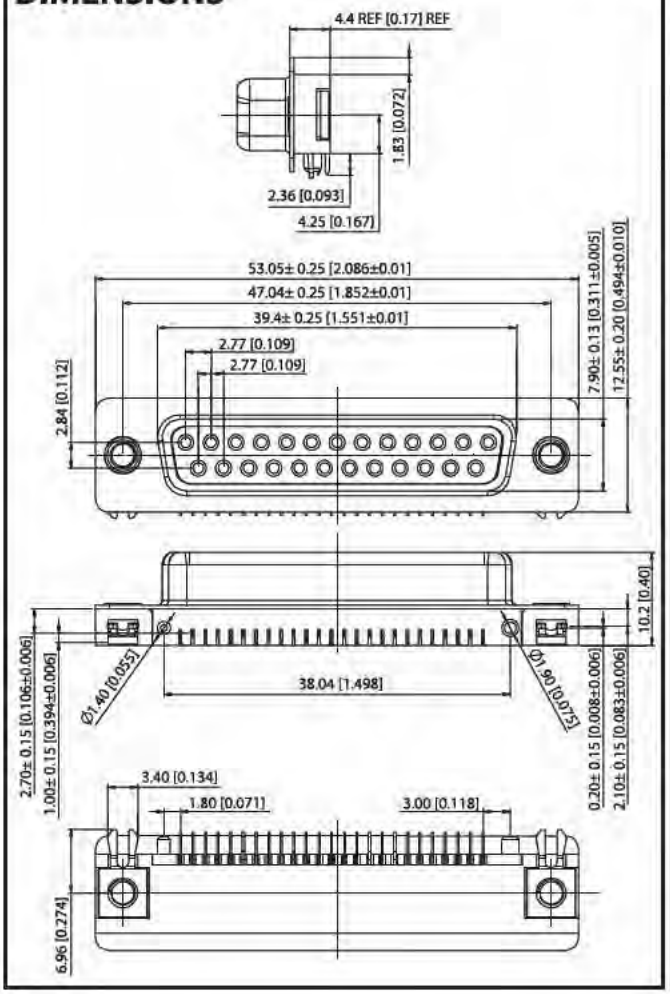
RIVET OPTIONS
0. None
1. Grounding Strap #4-40 Threaded on PANEL
2. Grounding Strap #4-40 Threaded on PCB & PANEL
3. Grounding Hook Boardlock+2 Prong

FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Installed
9. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Bulk-Packed

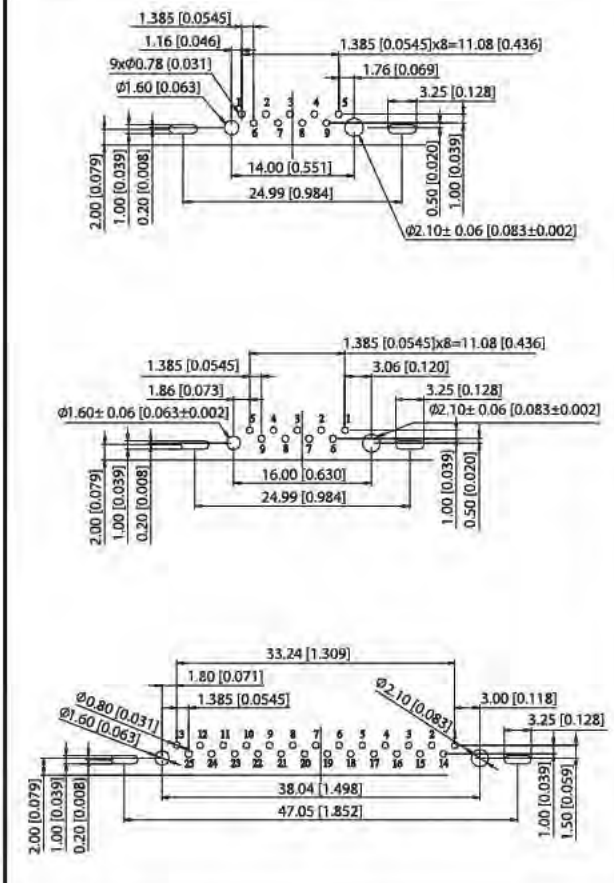
FERRITE
N : Without Ferrite

PIN TYPE
S : STAMPED PIN

DIMENSIONS

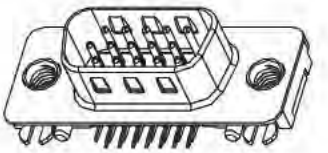


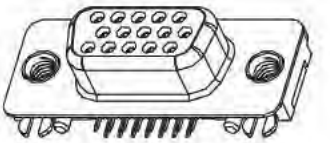
RECOMMENDED PCB LAYOUT



D-Sub Right Angle Type - 224 SERIES

SPECIFICATIONS





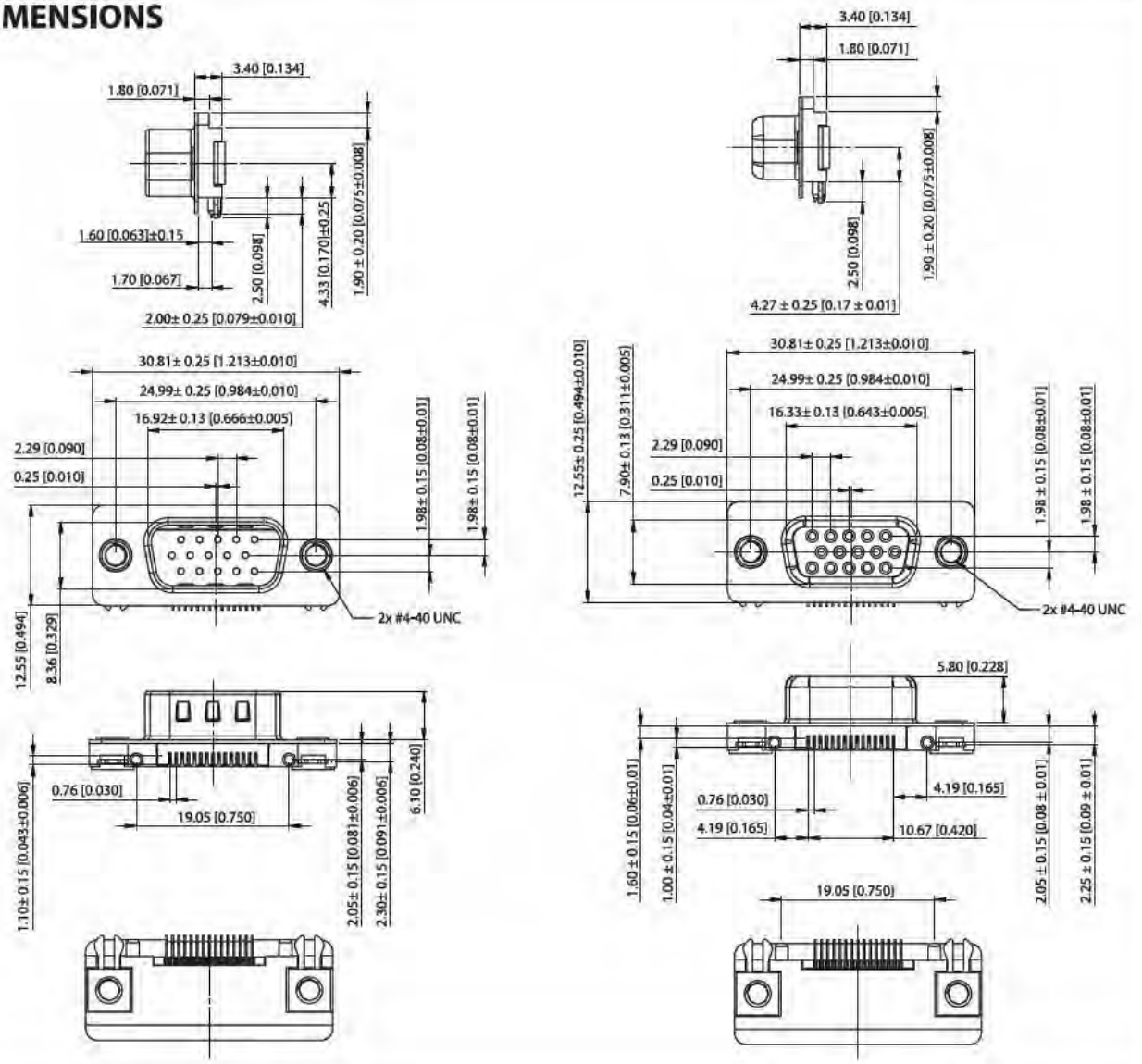
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS



D-Sub Right Angle Type - 224 SERIES

PART NUMBER OPTIONS

SDS224-PR - - - -

CONTACT PLATING
W = 000050" Nickel Underplate,
Gold Flash On Contact Surface,
.000100" Pure Tin On Termination.

SHELL PLATING
1. Nickel
2. Tin (Standard)
3. $Cr^{+}6$ Yellow Chrome
4.Gold Flash

CONTACT TYPE
M : MALE
F : FEMALE

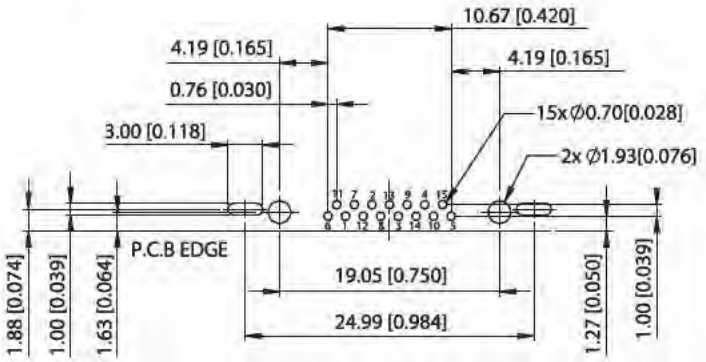
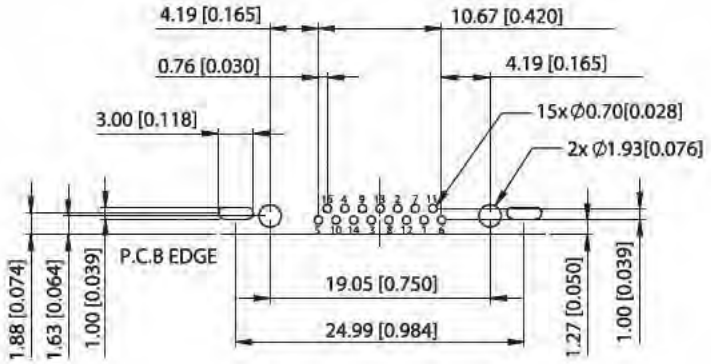
NO. OF PINS
15 : 15 POSITIONS

PIN TYPE
S : STAMPED PIN

INSULATOR COLOR
1.Black
2.Blue (Standard)

RIVET OPTIONS
0. None
1. Grounding Strap #4-40 Threaded on PANEL
2. Grounding Strap #4-40 Threaded on PCB & PANEL
3. Grounding Hook Boardlock+2 Prong

FLANGE MOUNTING OPTION
0. Ø3.05mm [Ø0.120] Clearance Hole
1. #4-40 UNC Female Thread
8. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Installed
9. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Bulk-Packed

FERRITE
N : Without Ferrite

RECOMMENDED PCB LAYOUT