

NOTES :

1. MATERIAL:-

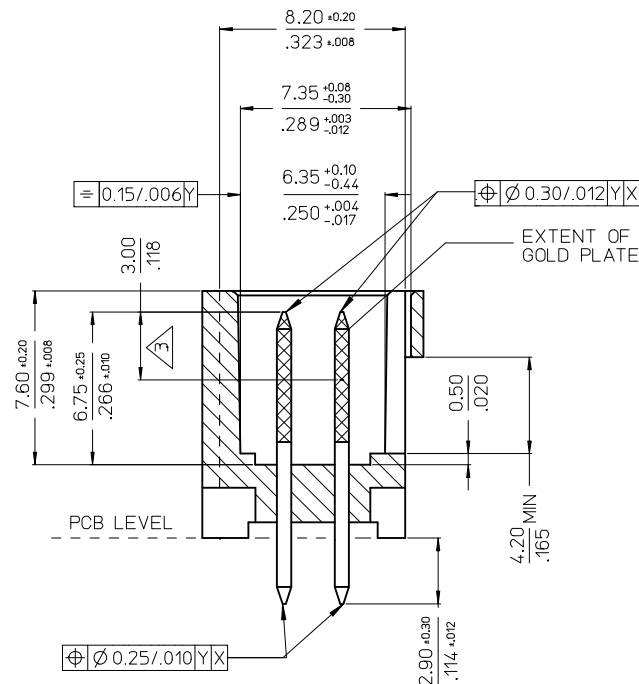
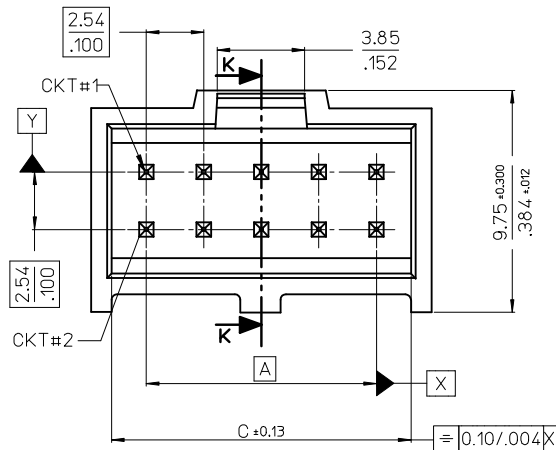
- PIN:- (0.65)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS AND VOID VERSIONS SEE SHEET 2.

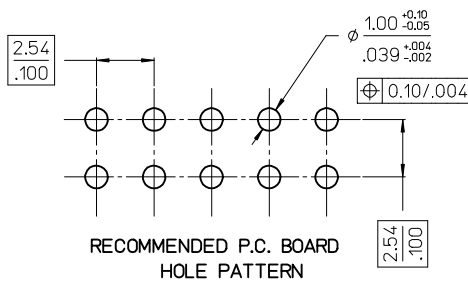
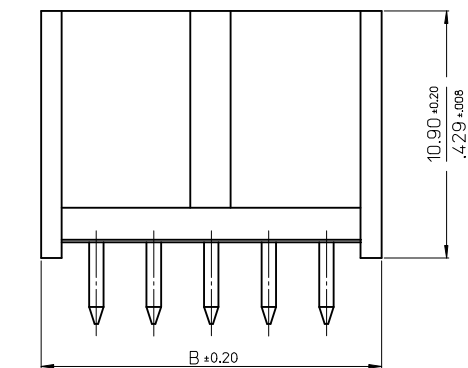
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

4. FOR PRODUCT SPEC SEE PS-99020-0001

5. RECOMMENDED PCB THICKNESS: 1.60mm



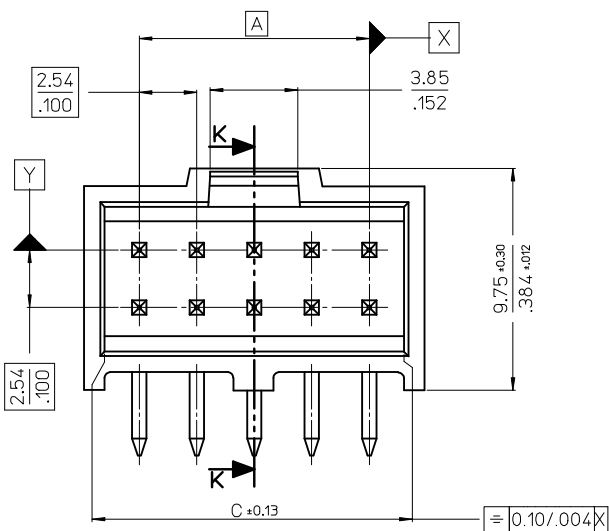
SECTION K-K



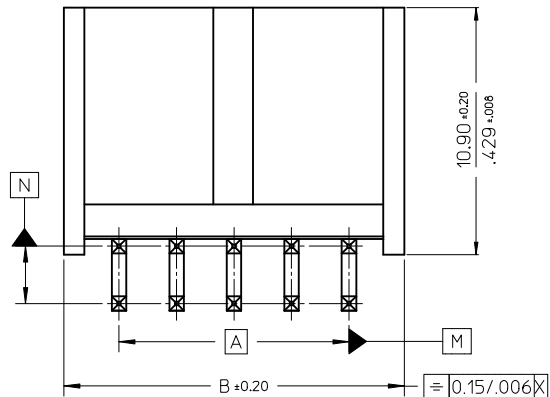
CKT	DIM A	DIM B	DIM C
6	(5.08)/.200	(9.96)/.392	(8.12)/.320
8	(7.62)/.300	(12.50)/.492	(10.66)/.420
10	(10.16)/.400	(15.04)/.592	(13.20)/.520
12	(12.70)/.500	(17.58)/.692	(15.74)/.620
14	(15.24)/.600	(20.12)/.792	(18.28)/.720
16	(17.78)/.700	(22.66)/.892	(20.82)/.820
18	(20.32)/.800	(25.20)/.992	(23.36)/.920
20	(22.86)/.900	(27.74)/.1092	(25.90)/.1020
22	(25.40)/.1000	(30.28)/.1192	(28.44)/.1120
24	(27.94)/.1100	(32.82)/.1292	(30.98)/.1220
26	(30.48)/.1200	(35.36)/.1392	(33.52)/.1320
28	(33.02)/.1300	(37.90)/.1492	(36.06)/.1420
30	(35.56)/.1400	(40.44)/.1592	(38.60)/.1520
32	(38.10)/.1500	(42.98)/.1692	(41.15)/.1620
34	(40.64)/.1600	(45.52)/.1792	(43.68)/.1720
36	(43.18)/.1700	(48.06)/.1892	(46.22)/.1820
38	(45.72)/.1800	(50.60)/.1992	(48.76)/.1920
40	(48.26)/.1900	(53.14)/.2092	(51.30)/.2020
42	(50.80)/.2000	(55.68)/.2192	(53.84)/.2120
44	(53.34)/.2100	(58.22)/.2292	(56.38)/.2220
46	(55.88)/.2200	(60.76)/.2392	(58.92)/.2320
48	(58.42)/.2300	(63.30)/.2492	(61.46)/.2420
50	(60.96)/.2400	(65.84)/.2592	(64.00)/.2520
52	(63.50)/.2500	(68.38)/.2692	(66.54)/.2620
54	(66.04)/.2600	(70.92)/.2792	(69.08)/.2720
56	(68.58)/.2700	(73.46)/.2892	(71.62)/.2820
58	(71.12)/.2800	(76.00)/.2992	(74.16)/.2920
60	(73.66)/.2900	(78.54)/.3092	(76.70)/.3020
62	(76.20)/.3000	(81.08)/.3192	(79.24)/.3120
64	(78.74)/.3100	(83.62)/.3292	(81.78)/.3220
66	(81.28)/.3200	(86.16)/.3392	(84.32)/.3320
68	(83.82)/.3300	(88.70)/.3492	(86.86)/.3420

ADD DATUMS		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO:	REV	DESCRIPTION	REV	mm	INCH	MM/IN	DATE	NTS	INCH	INCH	INCH	INCH	INCH
S2015-0152	CA2	DRWN:ATSEE		4 PLACES	± ---	KS	1988/08/23						
2014/08/18		CHKD:FANNYONG		3 PLACES	± ---	CHECKED BY	DATE						
2014/08/18		APPR:LBLEE		2 PLACES	± 0.10	ATSEE	2010/02/11						
2014/08/19				1 PLACE	± ---	APPROVED BY	DATE						
				ANGULAR ±1/2°		MLONG	2010/02/19						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
						SEE TABLE							
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

	10	9	8	7	6	5	4	3	2	1									
VERSION FULLY LOADED																			
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER				NOTES : 1. FOR ASSEMBLY, SEE SHEET 1. 2. REFER TO LEGEND FOR PLATING OPTIONS.												
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F	PLATING TYPE G													
	6	6	90130-X106	90130-X206	90130-X306	90130-X406	90130 - * * * *												
	8	8	X108	X208	X308	X408													
	10	10	X110	X210	X310	X410	PLATING TYPES												
	12	12	X112	X212	X312	X412													
	14	14	X114	X214	X314	X414	STYLE: - 1. STRAIGHT PIN VERSION 8. VERSION WITH VOIDS												
	16	16	X116	X216	X316	X416													
E	18	18	X118	X218	X318	X418	1 - TYPE A: 3.04µm MIN. TIN OVER 1.27µm - 2.54µm NICKEL.												
	20	20	X120	X220	X320	X420													
	22	22	X122	X222	X322	X422	2 - TYPE E: 0.38µm MIN. GOLD IN SELECTED AREA & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.												
	24	24	X124	X224	X324	X424													
	26	26	X126	X226	X326	X426	3 - TYPE F: 0.76µm MIN. GOLD IN SELECTED AREA. & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.												
	28	28	X128	X228	X328	X428													
	30	30	X130	X230	X330	X430	4 - TYPE G: 0.05 -0.10µm GOLD FLASH IN SELECTED AREA & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.												
	32	32	X132	X232	X332	X432													
D	34	34	X134	X234	X334	X434	VOIDED OPTIONS												
	36	36	X136	X236	X336	X436													
	38	38	X138	X238	X338	X438	NO OF CKTS HSG CKT SIZE VOIDED PART NUMBER VOID POSITION PLATING TYPE												
	40	40	X140	X240	X340	X440													
	42	42	X142	X242	X342	X442	9 10 90130-8190 3 A												
	44	44	X144	X244	X344	X444	9 10 90130-8309 2 F												
C	46	46	X146	X246	X346	X446	9 10 90130-8311 1 F												
	48	48	X148	X248	X348	X448	11 12 90130-8212 12 E												
	50	50	X150	X250	X350	X450	11 12 90130-8213 2 E												
	52	52	X152	X252	X352	X452	11 12 90130-8313 2 F												
	54	54	X154	X254	X354	X454	11 12 90130-8191 3 A												
	56	56	X156	X256	X356	X456													
	58	58	X158	X258	X358	X458													
	60	60	X160	X260	X360	X460													
	62	62	X162	X262	X362	X462													
B	64	64	X164	X264	X364	X464													
	66	66	X166	X266	X366	X466													
	68	68	90130-X168	90130-X268	90130-X368	90130-X468													
A	ADD DATUMS EC NO: S2015-0152 DRN:ATSEE CHKD:FANNYONG APPR:BLEE CA2				QUALITY SYMBOLS F _A =0 F _G =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130		SHEET NO. 2 OF 4					
								MM/IN		NTS	INCH								
								DRAWN BY DATE		TITLE									
								CHECKED BY DATE		APPROVED BY DATE									
		MATERIAL NO.		DOCUMENT NO.															
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
fb_frame_A3_P_AM_T Rev. F 2009/06/18											9	8	7	6	5	4	3	2	1



VERSION FULLY LOADED



NOTES :

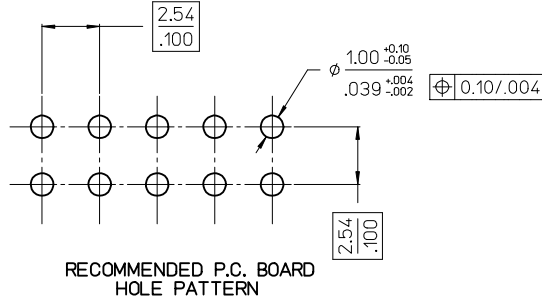
1. MATERIAL:-
- PIN:- (.065)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS AND VOID VERSIONS
SEE SHEET 2.

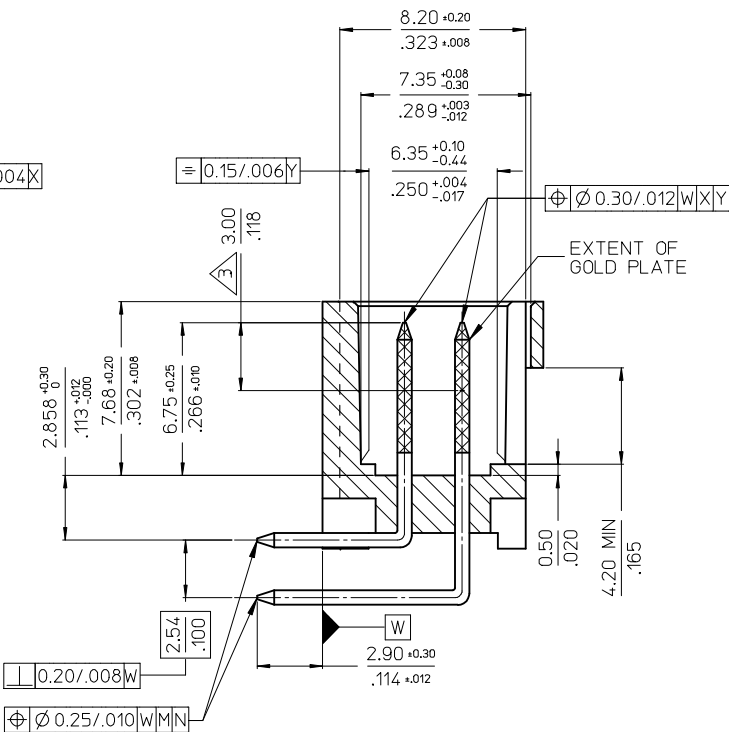
△ MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

4. FOR PRODUCT SPEC SEE PS-99020-0001

5. RECOMMENDED PCB THICKNESS: 1.60mm



RECOMMENDED P.C. BOARD
HOLE PATTERN



SECTION K-K

CKT	DIM A	DIM B	DIM C
6	(5.08)/ .200	(9.96)/ .392	(8.12)/ .320
8	(7.62)/ .300	(12.50)/ .492	(10.66)/ .420
10	(10.16)/ .400	(15.04)/ .592	(13.20)/ .520
12	(12.70)/ .500	(17.58)/ .692	(15.74)/ .620
14	(15.24)/ .600	(20.12)/ .792	(18.28)/ .720
16	(17.78)/ .700	(22.66)/ .892	(20.82)/ .820
18	(20.32)/ .800	(25.20)/ .992	(23.36)/ .920
20	(22.86)/ .900	(27.74)/ 1.092	(25.90)/ 1.020
22	(25.40)/ 1.000	(30.28)/ 1.192	(28.44)/ 1.120
24	(27.94)/ 1.100	(32.82)/ 1.292	(30.98)/ 1.220
26	(30.48)/ 1.200	(35.36)/ 1.392	(33.52)/ 1.320
28	(33.02)/ 1.300	(37.90)/ 1.492	(36.06)/ 1.420
30	(35.56)/ 1.400	(40.44)/ 1.592	(38.60)/ 1.520
32	(38.10)/ 1.500	(42.98)/ 1.692	(41.15)/ 1.620
34	(40.64)/ 1.600	(45.52)/ 1.792	(43.68)/ 1.720
36	(43.18)/ 1.700	(48.06)/ 1.892	(46.22)/ 1.820
38	(45.72)/ 1.800	(50.60)/ 1.992	(48.76)/ 1.920
40	(48.26)/ 1.900	(53.14)/ 2.092	(51.30)/ 2.020
42	(50.80)/ 2.000	(55.68)/ 2.192	(53.84)/ 2.120
44	(53.34)/ 2.100	(58.22)/ 2.292	(56.38)/ 2.220
46	(55.88)/ 2.200	(60.76)/ 2.392	(58.92)/ 2.320
48	(58.42)/ 2.300	(63.30)/ 2.492	(61.46)/ 2.420
50	(60.96)/ 2.400	(65.84)/ 2.592	(64.00)/ 2.520
52	(63.50)/ 2.500	(68.38)/ 2.692	(66.54)/ 2.620
54	(66.04)/ 2.600	(70.92)/ 2.792	(69.08)/ 2.720
56	(68.58)/ 2.700	(73.46)/ 2.892	(71.62)/ 2.820
58	(71.12)/ 2.800	(76.00)/ 2.992	(74.16)/ 2.920
60	(73.66)/ 2.900	(78.54)/ 3.092	(76.70)/ 3.020
62	(76.20)/ 3.000	(81.08)/ 3.192	(79.24)/ 3.120
64	(78.74)/ 3.100	(83.62)/ 3.292	(81.78)/ 3.220
66	(81.28)/ 3.200	(86.16)/ 3.392	(84.32)/ 3.320
68	(83.82)/ 3.300	(88.70)/ 3.492	(86.86)/ 3.420

ADD DATUMS		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO:	DATE	DRW/ATSEE	DATE	mm	INCH	MM/IN	DATE	NTS	INCH	INCH	INCH	INCH	INCH
S2015-0152	2014/08/18	CHYD-FANNY WONG	2014/08/19	4 PLACES	± ---	± ---	KS	1988/08/23	DATE	DATE	DATE	DATE	DATE
CA2	2014/08/18	CHYD-FANNY WONG	2014/08/19	3 PLACES	± ---	± .004	CHECKED BY	DATE	DATE	DATE	DATE	DATE	DATE
				2 PLACES	± 0.10	± ---	ATSEE	2010/02/11	DATE	DATE	DATE	DATE	DATE
				1 PLACE	± ---	± ---	APPROVED BY	DATE	DATE	DATE	DATE	DATE	DATE
				ANGULAR ± 1/2°		MLONG	2010/02/19	DATE	DATE	DATE	DATE	DATE	DATE
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	SEE TABLE	DATE	DATE	DATE	DATE	DATE	DATE
						SIZE	A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DATE	DATE	DATE	DATE	DATE

	10	9	8	7	6	5	4	3	2	1					
	VERSION FULLY LOADED														
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER									F			
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F	PLATING TYPE G									
	6	6	90130-X106	90130-X206	90130-X306	90130-X406									
	8	8	X108	X208	X308	X408									
	10	10	X110	X210	X310	X410									
	12	12	X112	X212	X312	X412									
	14	14	X114	X214	X314	X414									
	16	16	X116	X216	X316	X416									
E	18	18	X118	X218	X318	X418						E			
	20	20	X120	X220	X320	X420									
	22	22	X122	X222	X322	X422									
	24	24	X124	X224	X324	X424									
	26	26	X126	X226	X326	X426									
	28	28	X128	X228	X328	X428									
	30	30	X130	X230	X330	X430									
	32	32	X132	X232	X332	X432									
D	34	34	X134	X234	X334	X434						D			
	36	36	X136	X236	X336	X436									
	38	38	X138	X238	X338	X438									
	40	40	X140	X240	X340	X440									
	42	42	X142	X242	X342	X442									
	44	44	X144	X244	X344	X444									
	46	46	X146	X246	X346	X446									
	48	48	X148	X248	X348	X448									
C	50	50	X150	X250	X350	X450						C			
	52	52	X152	X252	X352	X452									
	54	54	X154	X254	X354	X454									
	56	56	X156	X256	X356	X456									
	58	58	X158	X258	X358	X458									
	60	60	X160	X260	X360	X460									
	62	62	X162	X262	X362	X462									
	64	64	X164	X264	X364	X464									
B	66	66	X166	X266	X366	X466						B			
	68	68	90130-X168	90130-X268	90130-X368	90130-X468									
													A		
A					QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		A
				F=0		mm INCH		MM/IN		NTS	INCH				
				F=0		4 PLACES ± --- ± ---		DRAWN BY DATE		TITLE					
				F=0		3 PLACES ± --- ± .004		CHECKED BY DATE		C-GRID III					
						2 PLACES ± 0.10 ± ---		ATSEE 2010/02/11		SHROUDED HEADER					
						1 PLACE ± --- ± ---		APPROVED BY DATE		MOLEX INCORPORATED					
						ANGULAR ±1/2°		MLONG 2010/02/19		DOCUMENT NO.					
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SDA-90130		SHEET NO.			
								SEE TABLE				4 OF 4			
								SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
								A3							