

NOTES :

1. MATERIAL:-

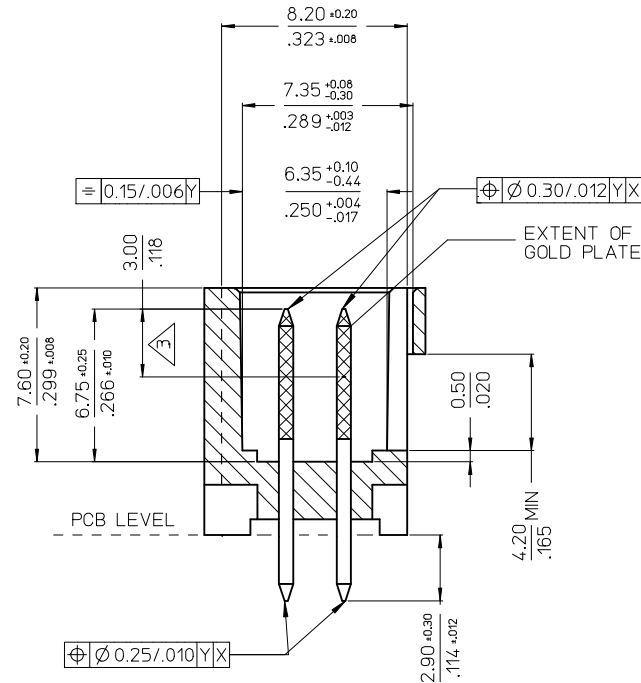
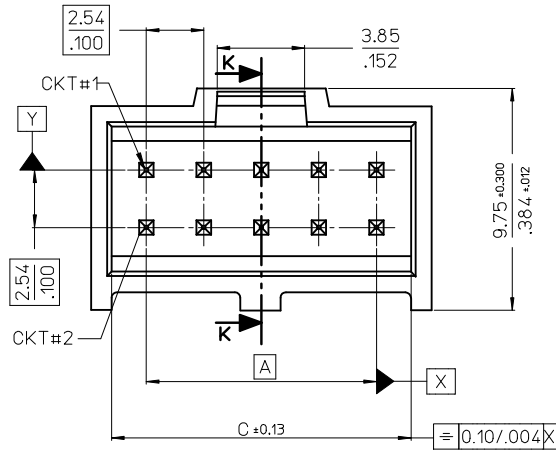
- PIN:- (0.65)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

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

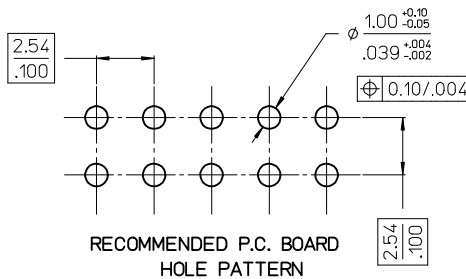
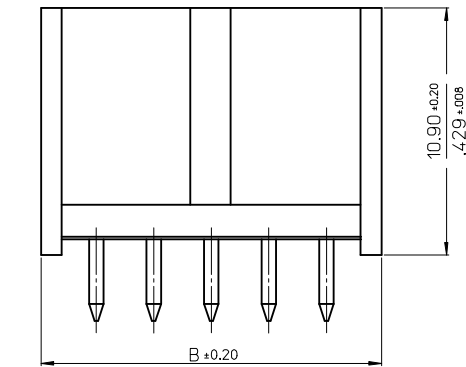
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

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	NTS	INCH	NTS	INCH	NTS	INCH	NTS
S2015-0152	CA2	DRW:WATSEE		4 PLACES	± ---	± ---	KS	1988/08/23					
2014/08/18		CHKD:FANNYONG		3 PLACES	± ---	± .004							
2014/08/18		APPR:LBLEE		2 PLACES	± 0.10	± ---	ATSEE	2010/02/11					
2014/08/19				1 PLACE	± ---	± ---							
				ANGULAR ±1/2°									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
				SEE TABLE									
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

C-GRID III
DUAL ROW STRAIGHT
SHROUDED HEADER

MOLEX INCORPORATED

SDA-90130

SHEET NO.
1 OF 4

	10	9	8	7	6	5	4	3	2	1
	VERSION FULLY LOADED									
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER							
			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				
E	10	10	X110	X210	X310	X410				
	12	12	X112	X212	X312	X412				
	14	14	X114	X214	X314	X414				
	16	16	X116	X216	X316	X416				
D	18	18	X118	X218	X318	X418				
	20	20	X120	X220	X320	X420				
	22	22	X122	X222	X322	X422				
	24	24	X124	X224	X324	X424				
C	26	26	X126	X226	X326	X426				
	28	28	X128	X228	X328	X428				
	30	30	X130	X230	X330	X430				
	32	32	X132	X232	X332	X432				
B	34	34	X134	X234	X334	X434				
	36	36	X136	X236	X336	X436				
	38	38	X138	X238	X338	X438				
	40	40	X140	X240	X340	X440				
A	42	42	X142	X242	X342	X442				
	44	44	X144	X244	X344	X444				
	46	46	X146	X246	X346	X446				
	48	48	X148	X248	X348	X448				
	50	50	X150	X250	X350	X450				
	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				
	66	66	X166	X266	X366	X466				
	68	68	90130-X168	90130-X268	90130-X368	90130-X468				
A	ADD DATUMS EC NO: S2015-0152 DRWN:ATSEE CHKD:FANNYWONG APPR:BLEE 2014/08/18 2014/08/18 2014/08/19			QUALITY SYMBOLS F _A =0 F _E =0 F _F =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°		DIMENSION STYLE MM/IN DRAWN BY DATE KS 1988/08/23 CHECKED BY DATE ATSEE 2010/02/11 APPROVED BY DATE MLONG 2010/02/19		SCALE NTS DESIGN UNITS INCH THIRD ANGLE PROJECTION	
A	CA2			DESCRIPTION REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

NOTES :

- FOR ASSEMBLY, SEE SHEET 1.
- REFER TO LEGEND FOR PLATING OPTIONS.

90130 - * * * *

PLATING TYPES

STYLE: - 1. STRAIGHT PIN VERSION

8. VERSION WITH VOIDS

1 - TYPE A:
3.0µm MIN. TIN OVER 1.27µm - 2.54µm NICKEL.

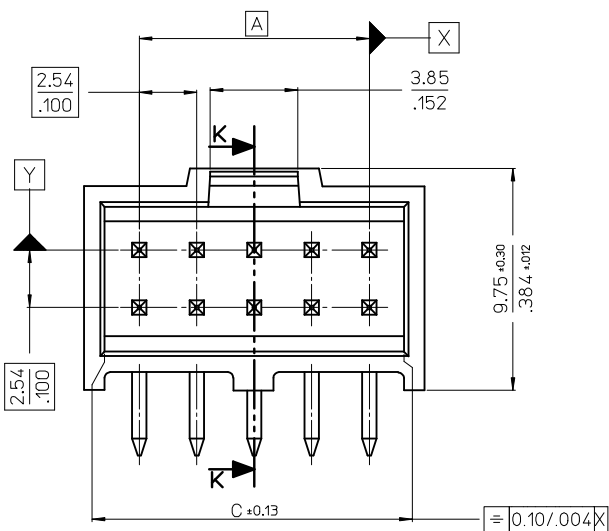
2 - TYPE E:
0.38µm MIN. GOLD IN SELECTED AREA
& 3.0µm MIN. TIN IN SELECTED AREA
OVER 1.3µm MIN. NICKEL OVERALL.

3 - TYPE F:
0.76µm MIN. GOLD IN SELECTED AREA.
& 3.0µm MIN. TIN IN SELECTED AREA
OVER 1.3µm MIN. NICKEL OVERALL.

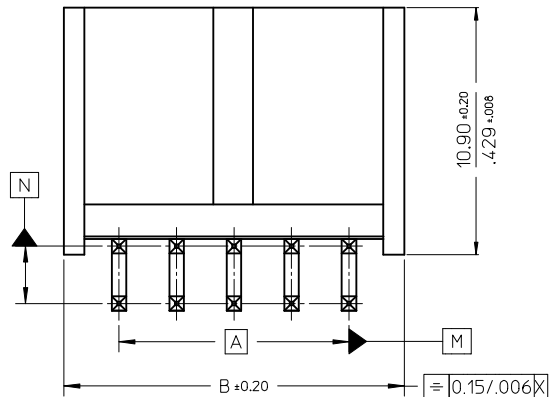
4 - TYPE G:
0.05 -0.10µm GOLD FLASH IN SELECTED AREA
& 3.0µm MIN. TIN IN SELECTED AREA
OVER 1.3µm MIN. NICKEL OVERALL.

VOIDED OPTIONS

NO OF CKTS	HSG CKT SIZE	VOIDED PART NUMBER	VOID POSITION	PLATING TYPE
9	10	90130-8190	3	A
9	10	90130-8309	2	F
9	10	90130-8311	1	F
11	12	90130-8212	12	E
11	12	90130-8213	2	E
11	12	90130-8313	2	F
11	12	90130-8191	3	A



VERSION FULLY LOADED



NOTES :

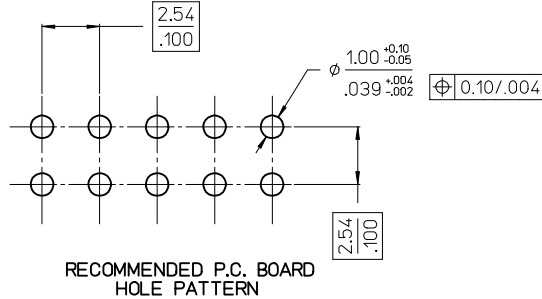
1. MATERIAL:-
- PIN:- (.065)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

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

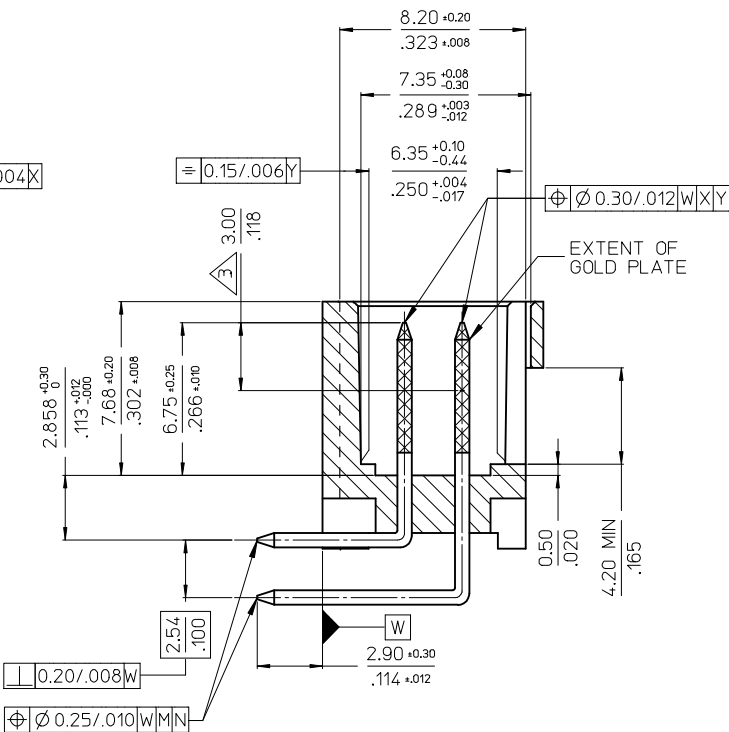
△ MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

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-FANNYONG	2014/08/19	4 PLACES	± ---	± ---	KS	1988/08/23					
				3 PLACES	± ---	± .004							
				2 PLACES	± 0.10	± ---	ATSEE	2010/02/11					
				1 PLACE	± ---	± ---	APPROVED BY	DATE					
							MLONG	2010/02/19					
							MATERIAL NO.						
							SEE TABLE						
							SIZE						
							A3						
							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																	
	NO OF CKTS	HSG CKT SIZE	PART NUMBER															
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F	PLATING TYPE G												
F	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												
E	16	16	X116	X216	X316	X416												
	18	18	X118	X218	X318	X418												
	20	20	X120	X220	X320	X420												
	22	22	X122	X222	X322	X422												
	24	24	X124	X224	X324	X424												
D	26	26	X126	X226	X326	X426												
	28	28	X128	X228	X328	X428												
	30	30	X130	X230	X330	X430												
	32	32	X132	X232	X332	X432												
	34	34	X134	X234	X334	X434												
C	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												
B	46	46	X146	X246	X346	X446												
	48	48	X148	X248	X348	X448												
	50	50	X150	X250	X350	X450												
	52	52	X152	X252	X352	X452												
	54	54	X154	X254	X354	X454												
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												
	64	64	X164	X264	X364	X464												
	66	66	X166	X266	X366	X466												
	68	68	90130-X168	90130-X268	90130-X368	90130-X468												
ADD DATUMS			REV		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: S2015-0152			2014/08/18		2014/08/18		2014/08/19		mm		INCH		DATE		INCH		TITLE	
DRWN:ATSEE			2014/08/18		2014/08/18		2014/08/19		4 PLACES ± --- ± ---		KS		1988/08/23		C-GRID III		DUAL ROW STRAIGHT	
CHKD:FANNY WONG			2014/08/18		2014/08/18		2014/08/19		3 PLACES ± --- ± .004		CHECKED BY		DATE		SHROUDED HEADER			
APPR:BLEE			2014/08/19		2014/08/19		2014/08/19		2 PLACES ± 0.10 ± ---		ATSEE		2010/02/11		MOLEX INCORPORATED			
REV			2014/08/19		2014/08/19		2014/08/19		1 PLACE ± --- ± ---		APPROVED BY		DATE		SDA-90130		SHEET NO.	
CA2			2014/08/19		2014/08/19		2014/08/19		ANGULAR ± 1/2°		MLONG		2010/02/19		4 OF 4			
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.					
									SIZE		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
tb_frame_A3_P_AM_T			9		8		7		6		5		4		3		2	
Rev. F 2009/06/18			9		8		7		6		5		4		3		2	