

- [illegible]

CHANGE DWG REVISION EC NO: S2012-0132 CA1	2011/08/16 DRWN:ATSEE	DESCRIPTION	QUALITY SYMBOLS =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION 	
	2011/08/18 CHKD:SKANG			mm	INCH	DRAWN BY KS	DATE 1988/08/23	C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER			
	2011/08/18 APPR:MLONG			4 PLACES ± ---	± ---	CHECKED BY ATSEE	DATE 2010/02/11				
				3 PLACES ± ---	± .004	APPROVED BY MLONG	DATE 2010/02/19				
				2 PLACES ± 0.10	± ---	MOLEX MOLEX INCORPORATED		DOCUMENT NO. SDA-90130	SHEET NO. 1 OF 4		
	1 PLACE ± ---	± ---	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				

tb_frame_A3_P_AM_T
Rev. F 2009/06/18

	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													
	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													
	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													
D	32	32	↑ X132	↑ X232	↑ X332	↑ X432													
	34	34	↑ X134	↑ X234	↑ X334	↑ X434													
	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													
C	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													
B	64	64	↑ X164	↑ X264	↑ X364	↑ X464													
	66	66	↓ X166	↓ X266	↓ X366	↓ X466													
	68	68	90130-X168	90130-X268	90130-X368	90130-X468													
A	CHANGE DWG REVISION EC NO: S2012-0132 DRWN:ATSEE 2011/08/16 CHKD:SKANG 2011/08/18 APPR:MLONG 2011/08/18 REV				DESCRIPTION	QUALITY SYMBOLS F _A =0 F _E =0 F _F =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION						
									MM/IN										
							4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE							
								3 PLACES	± ---					± .004	CHECKED BY	DATE			
							2 PLACES	± 0.10	± ---	ATSEE	2010/02/11								
							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		SDA-90130		2 OF 4					
										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

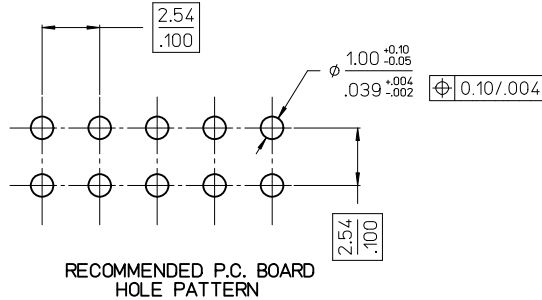
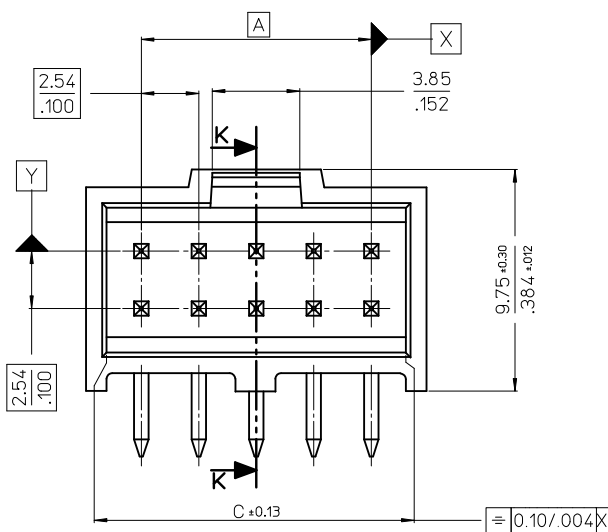
NOTES :
1. FOR ASSEMBLY, SEE SHEET 1.
2. REFER TO LEGEND FOR PLATING OPTIONS.



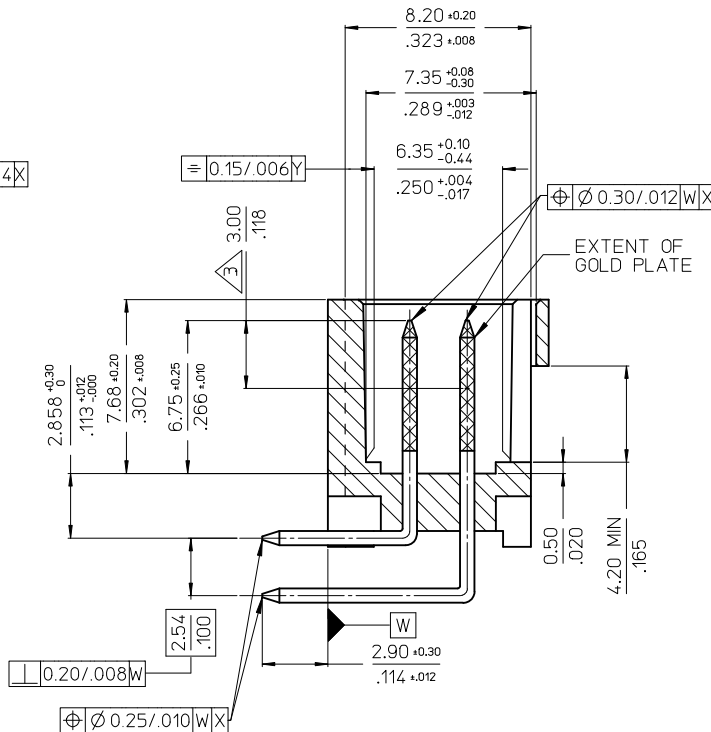
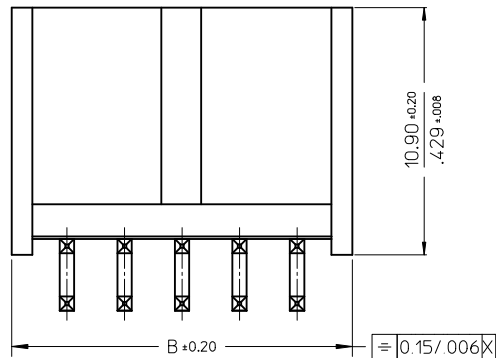
- STYLE: - 1. STRAIGHT PIN VERSION
8. VERSION WITH VOIDS
- 1 - TYPE A:
3.0µm MIN. TIN OVER 1.27µm - 2.54µm NICKEL.
- 2 - TYPE E:
0.38µm MIN. GOLD IN SELECTED AREA
& 3.0µm MIN. TIN IN SELECTED AREA
OVER 1.3µm MIN. NICKEL OVERALL.
- 3 - TYPE F:
0.76µm MIN. GOLD IN SELECTED AREA.
& 3.0µm MIN. TIN IN SELECTED 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



RECOMMENDED P.C. BOARD
HOLE PATTERN



SECTION K-K

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

- FOR PLATING VERSIONS AND VOID VERSIONS
SEE SHEET 2.

△ MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

- FOR PRODUCT SPEC SEE PS-99020-0001

- RECOMMENDED PCB THICKNESS: 1.60mm

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

CHANGE DWG REVISION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
REV	DESCRIPTION	SYMBOL	SYMBOL	mm	INCH	MM/IN	DATE	NTS	INCH	INCH	INCH	INCH	INCH
CA1	EC NO: S2012-0132 DRW:ATSEE CHKD:SKANG APPR:MLONG	F _A =0 F _B =0 F _C =0	F _A =0 F _B =0 F _C =0	4 PLACES ± ---	± ---	KS	1988/08/23						
				3 PLACES ± ---	± .004								
				2 PLACES ± 0.10	± ---								
				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									

	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																
	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																
	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																
	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																
	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																
	68	68	90130-X168	90130-X268	90130-X368	90130-X468																
A					CHANGE DWG REVISION EC NO: S2012-0132 DRWN:ATSEE CHKD:SKANG APPR:MLONG		2011/08/16 2011/08/18 2011/08/18		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
															mm		INCH		NTS		INCH	
													4 PLACES ± --- ± ---		KS		DATE		1988/08/23		TITLE	
													3 PLACES ± --- ± .004		CHECKED BY		DATE		2010/02/11		C-GRID III	
													2 PLACES ± 0.10 ± ---		ATSEE		DATE		2010/02/11		DUAL ROW STRAIGHT	
													1 PLACE ± --- ± ---		APPROVED BY		DATE		2010/02/19		SHROUDED HEADER	
													ANGULAR ± 1/2°		MLONG		DATE		2010/02/19		MOLEX INCORPORATED	
													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT 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								