

- [illegible]

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

VERSION FULLY LOADED

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

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

CHANGE DWG REVISION

EC NO: S2012-0132

DRWN:ATSEE

CHKD:SKANG

APPR:MLONG

REV

CA1

2011/08/16

2011/08/18

2011/08/18

DESCRIPTION

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°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM/IN

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SIZE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE

NTS

DESIGN UNITS

INCH

THIRD ANGLE PROJECTION

TITLE

C-GRID III

DUAL ROW STRAIGHT

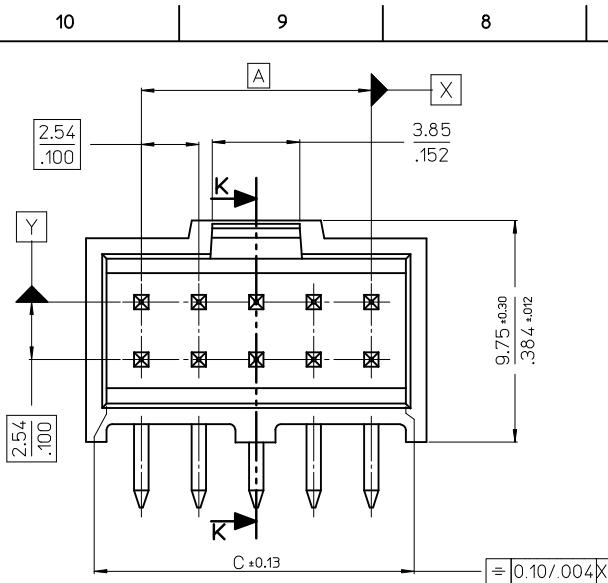
SHROUDED HEADER

MOLEX INCORPORATED

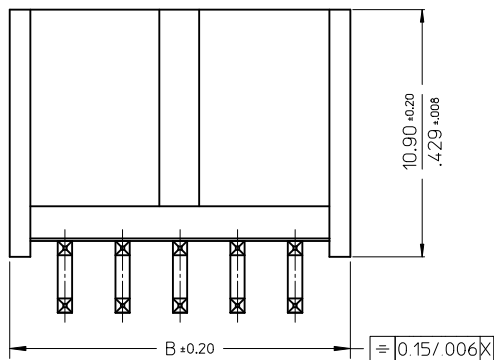
SDA-90130

SHEET NO.

2 OF 4



VERSION FULLY LOADED



NOTES :

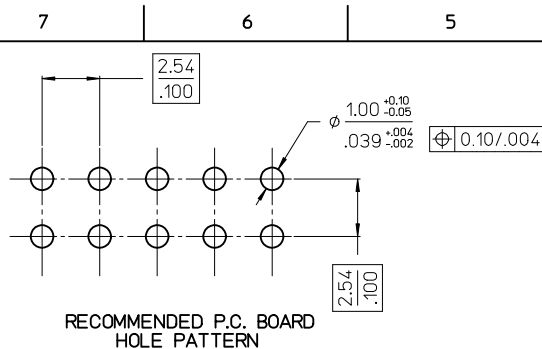
1. MATERIAL:-
- PIN:- (0.65)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

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

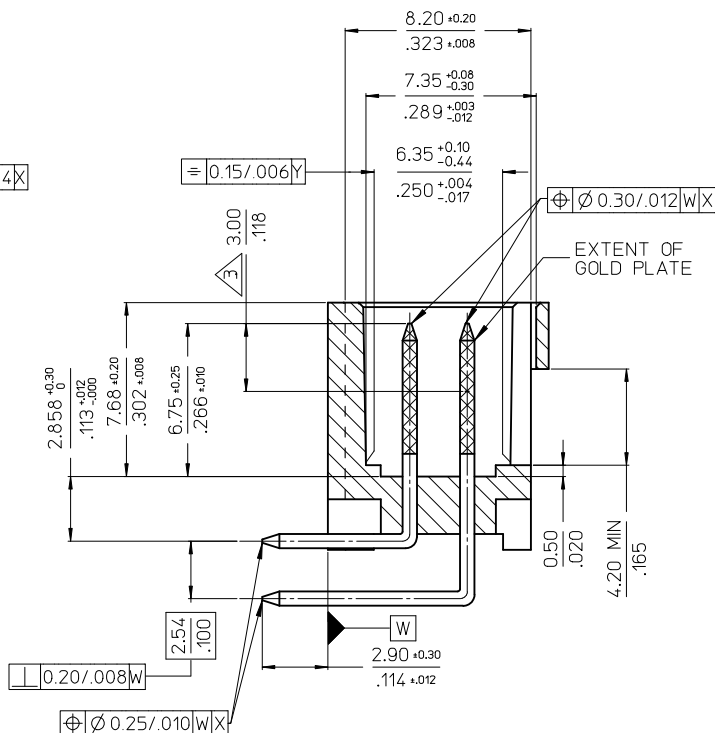
△ MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

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

CHANGE DWG REVISION EC NO: S2012-0132 DRW:ATSEE CHKD:SKANG APPR:MLONG CA1	2011/08/16 2011/08/18 2011/08/18	DESCRIPTION REV	QUALITY SYMBOLS ▽_F=0 ▽_G=0 ▽_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
						MM/IN		NTS	INCH	
						DRAWN BY DATE		TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER  MOLEX INCORPORATED		
						1988/08/23				
						CHECKED BY DATE				
						2010/02/11				
						APPROVED BY DATE				
		2010/02/19								
		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
		SEE TABLE		SDA-90130		3 OF 4				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				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												
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							
					NOTES : 1. FOR ASSEMBLY, SEE SHEET 1. 2. REFER TO LEGEND FOR PLATING OPTIONS								
					90130 - * * * * INDICATES CIRCUIT HOUSING SIZE PLATING TYPES								
				STYLE: - 3. RIGHT ANGLE VERSION									
				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.									
A	CHANGE DWG REVISION EC NO: S2012-0132 DRWN:ATSEE 2011/08/16 CHKD:SKANG 2011/08/18 APPR:MLONG 2011/08/18				QUALITY SYMBOLS F=0 F=0 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		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
								DRAWN BY DATE KS 1988/08/23		C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER			
								CHECKED BY DATE ATSEE 2010/02/11					
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY DATE MLONG 2010/02/19		MOLEX INCORPORATED	
CA1		SEE TABLE		MATERIAL NO. DOCUMENT NO.		SDA-90130		SHEET NO. 4 OF 4					
		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 Rev. F 2009/06/18													