

NOTES :

1. MATERIAL:-

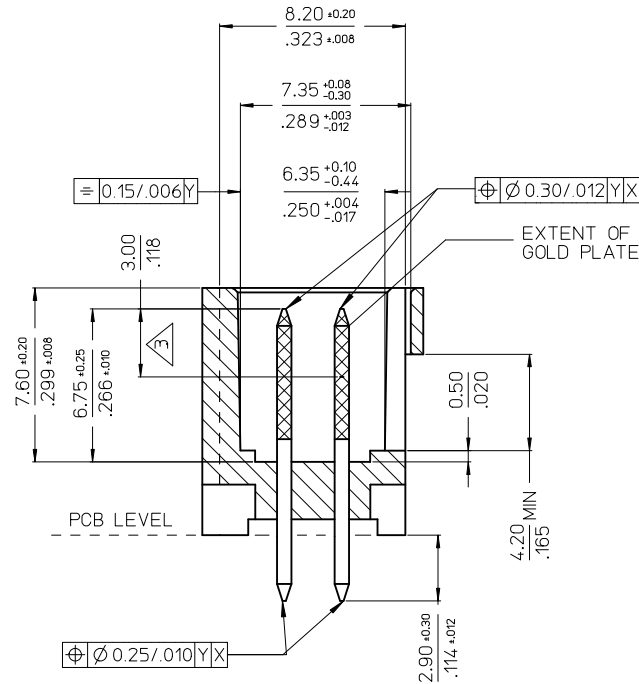
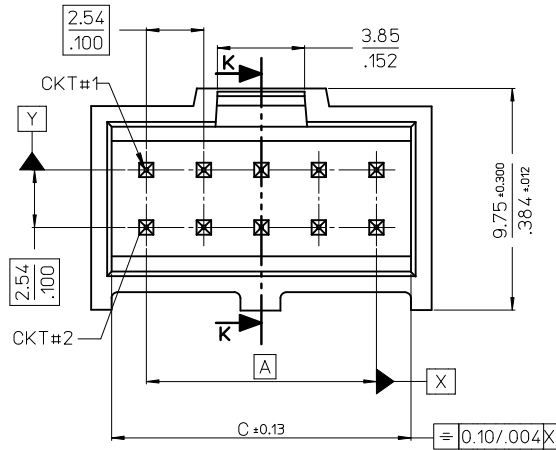
- PIN:- (0.65)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

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

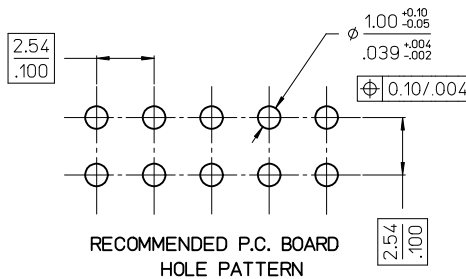
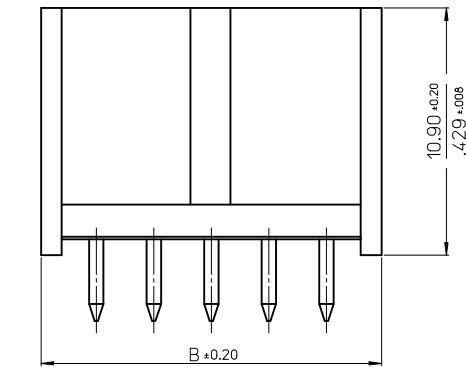
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

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)/.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 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/IN		NTS	INCH		
CA1		REV		QUALITY SYMBOLS					C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED		SHEET NO. 1 OF 4	
					F _A =0		DRAWN BY		DATE		MOLEX INCORPORATED	
					F _E =0		KS		1988/08/23			
					F _P =0		CHECKED BY		DATE			
							ATSEE		2010/02/11			
					4 PLACES ± --- ± ---		APPROVED BY		DATE		SDA-90130	
					3 PLACES ± --- ± .004		MLONG		2010/02/19			
					2 PLACES ± 0.10 ± ---		MATERIAL NO.		DOCUMENT NO.			
					1 PLACE ± --- ± ---		SEE TABLE					
					ANGULAR ±1/2°							
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
							SIZE					
							A3					

		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: 3.0μm 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 & 3.0μm 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 & 3.0μm 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 & 3.0μm 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																								
	46	46	X146	X246	X346	X446	9 10 90130-8309 2 F																							
	48	48	X148	X248	X348	X448																								
C	50	50	X150	X250	X350	X450	9 10 90130-8311 1 F																							
	52	52	X152	X252	X352	X452																								
	54	54	X154	X254	X354	X454	11 12 90130-8212 12 E																							
	56	56	X156	X256	X356	X456																								
	58	58	X158	X258	X358	X458	11 12 90130-8213 2 E																							
	60	60	X160	X260	X360	X460																								
	62	62	X162	X262	X362	X462	11 12 90130-8313 2 F																							
	64	64	X164	X264	X364	X464																								
B	66	66	X166	X266	X366	X466	11 12 90130-8191 3 A																							
	68	68	90130-X168	90130-X268	90130-X368	90130-X468																								
A	CHANGE DWG REVISION EC NO: S2012-0132 2011/08/16 DRWN:ATSEE 2011/08/18 CHKD:SKANG 2011/08/18 APPR:MLONG 2011/08/18 CA1											DESCRIPTION REV	QUALITY SYMBOLS F _A =0 F _E =0 F _F =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION										
																MM/IN														
														4 PLACES	± ---	± ---	DRAWN BY KS	DATE 1988/08/23		TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER		MOLEX	MOLEX INCORPORATED							
														3 PLACES	± ---	± .004														
														2 PLACES	± 0.10	± ---	CHECKED BY ATSEE	DATE 2010/02/11		APPROVED BY MLONG		DATE 2010/02/19		DOCUMENT NO. SDA-90130		SHEET NO. 2 OF 4				
														1 PLACE	± ---	± ---														
														ANGULAR ±1/2°		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															
														fb_frame_A3_P_AM_T Rev. F 2009/06/18																9

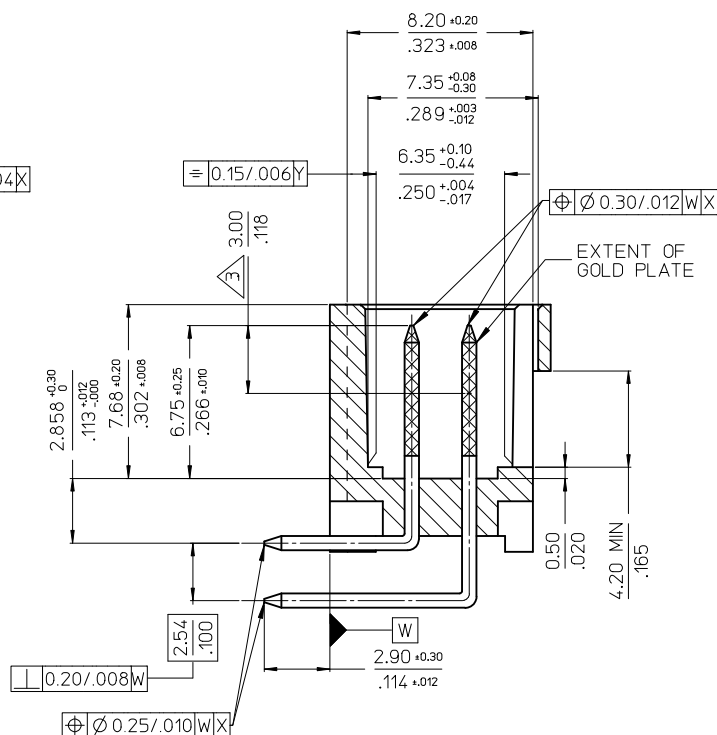
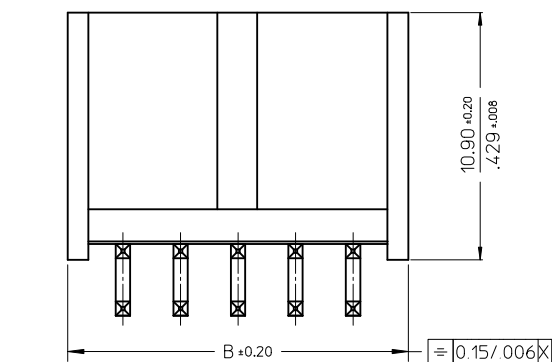
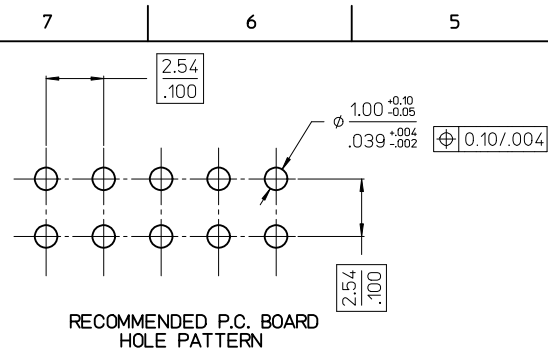
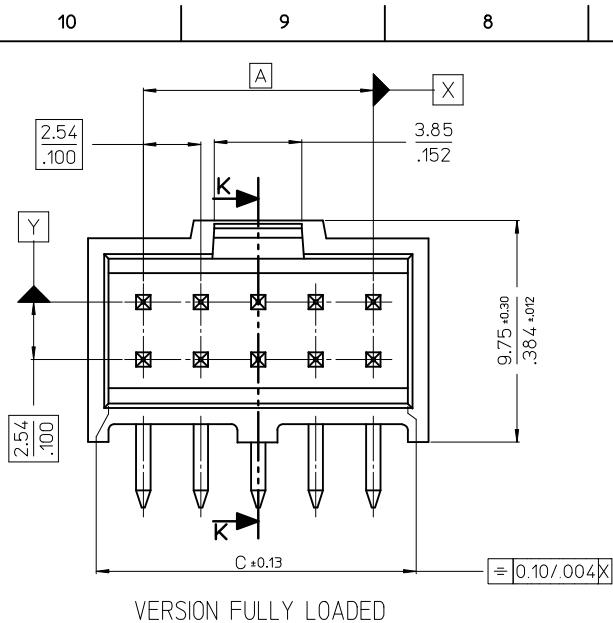
NOTES :
1. FOR ASSEMBLY, SEE SHEET 1.
2. REFER TO LEGEND FOR PLATING OPTIONS.

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



		3	2	1
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	

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

CA1	CHANGE DWG REVISION
	EC NO: S2012-0132
	DRWN:ATSEE 2011/08/16
	CH'KD:SKANG 2011/08/18
	APPR:MLONG 2011/08/18

REV	DESCRIPTION	QUALITY SYMBOLS
		$\nabla_A = 0$
		$\nabla_C = 0$
		$\nabla_P = 0$

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	
MM/IN	
DRAWN BY	DATE
KS	1988/08/23
CHECKED BY	DATE
ATSEE	2010/02/11
APPROVED BY	DATE
MLONG	2010/02/19
MATERIAL NO.	
SEE TABLE	
SIZE	THIS DRAWING CONTAINS INCORPORATED AND
A3	

SCALE NTS	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE		
C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER		
 MOLEX INCORPORATED		
DOCUMENT NO. SDA-90130		SHEET NO. 3 OF 4
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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							
E	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							
D	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							
C	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							
B	58	58	X158	X258	X358	X458						B	
	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	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)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
						mm INCH		DRAWN BY DATE KS 1988/08/23		TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED	SHEET NO. 4 OF 4		
						4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± ---		CHECKED BY DATE ATSEE 2010/02/11					
						ANGULAR ±1/2°		APPROVED BY DATE MLONG 2010/02/19					
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-90130			
						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	9	8	7	6	5	4	3	2	1				