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Part Number: [0901303344](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Right Angle, Shrouded, Fully Loaded, 44 Circuits, Black 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

[3D Model](#) [Product Specification PS-99020-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [90130](#)
Application Wire-to-Board
Overview [cgrid_iii](#)
Product Name C-Grid III™

Physical

Breakaway No
Circuits (Loaded) 44
Circuits (maximum) 44
Color - Resin Black
Durability (mating cycles max) 200
First Mate / Last Break No
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part Yes
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Polyester
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.114 In
PC Tail Length (mm) 2.90 mm
PCB Locator No
PCB Retention None
PCB Thickness Recommended (in) 0.063 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 mm
Pitch - Term. Interface (in) 0.100 In
Pitch - Term. Interface (mm) 2.54 mm
Plating min: Mating (µin) 30.48
Plating min: Mating (µm) 0.762
Plating min: Termination (µin) 120
Plating min: Termination (µm) 3
Polarized to Mating Part Yes
Polarized to PCB No
Shrouded Closed Ends
Stackable No
Surface Mount Compatible (SMC) No
Temperature Range - Operating -55°C to +125°C
Termination Interface: Style Through Hole

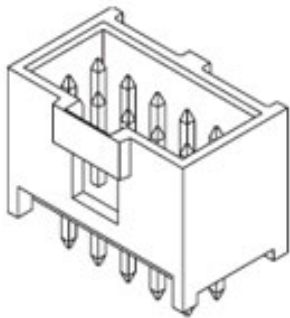


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Not Reviewed**
**Halogen-Free
Status**

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[90130Series](#)

Mates With
[90142 C-Grid III™ Crimp Housing](#)

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	350V AC/DC

Material Info

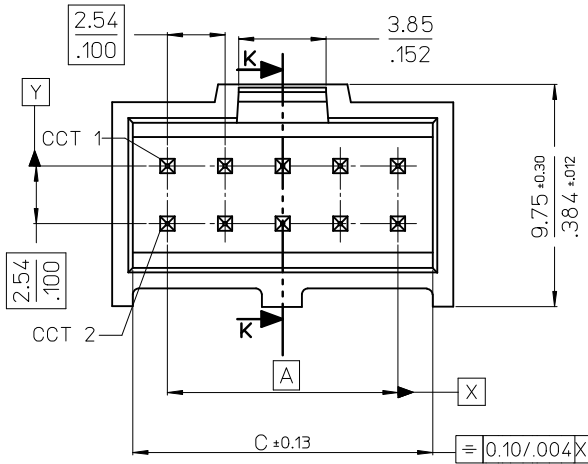
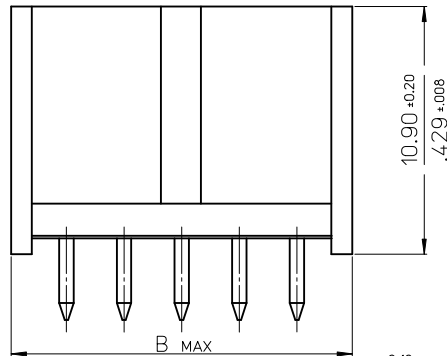
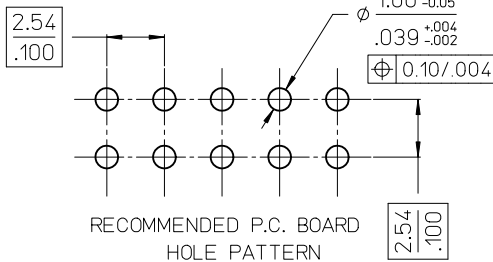
Reference - Drawing Numbers

Packaging Specification	PK-90130-001, PK-91814-005
Product Specification	PS-99020-0001
Sales Drawing	SDA-90130

This document was generated on 05/26/2010

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VERSION FULLY LOADED



NOTES

1.MATERIAL:-

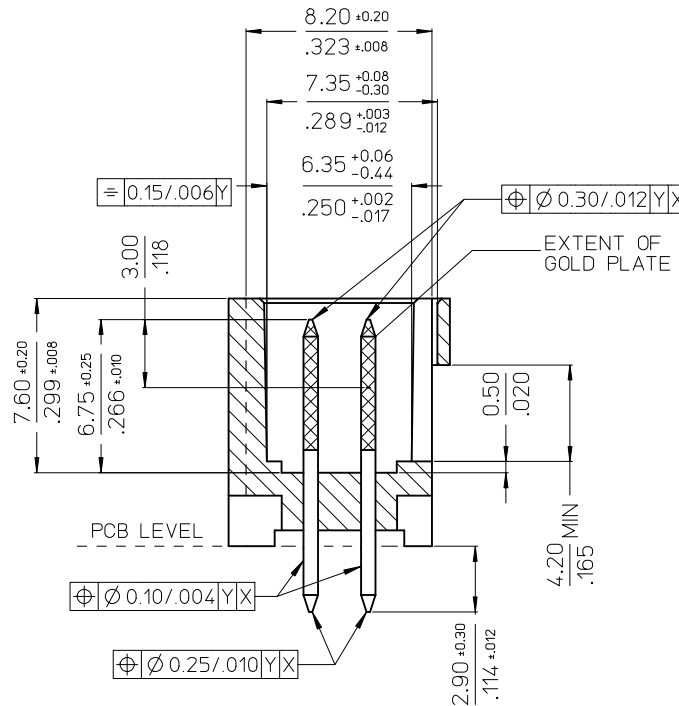
- PIN:- (0.635)/.025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

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: 1.6mm



No. OF CKTS	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

RE-POSITION DIM B EC NO: S2010-0811 DRWNS:KANG CHKD:ATSEE APPR:MLONG B1	2010/03/25	2010/03/31	2010/03/31	DESCRIPTION REV	QUALITY SYMBOLS <div>F_A=0</div> <div>F_B=0</div> <div>F_P=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	<div></div> THIRD ANGLE PROJECTION
	4 PLACES		± ---			± ---	DRAWN BY KS	DATE 1988/08/23	TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER			
	3 PLACES		± ---			± .004	CHECKED BY ATSEE	DATE 2010/02/11				
	2 PLACES		± 0.10			± ---	APPROVED BY MLONG		DATE 2010/02/19	<div></div> MOLEX INCORPORATED		
	1 PLACE		± ---			± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-90130		SHEET NO. 1 OF 4	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						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			
	NO OF CKTS	HSG CKT SIZE	PART NUMBER			NOTES: 1. FOR ASSY SEE SHEET 1. 2. FOR PLATING DETAILS SEE SDES-99000-0003							
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F								
F	6	6	90130-X106	90130-X206	90130-X306	90130 - * * * * <div>INDICATES CIRCUIT HOUSING SIZE (EXCEPTION ON VOIDED OPTION - SEE TABLE FOR HOUSING CIRCUIT SIZE)</div> <div>PLATING 1 - TYPE A 2 - TYPE E 3 - TYPE F 4 - TYPE G</div> <div>STYLE# - STRAIGHT ASSY - 1. VERSION FULLY LOADED BLACK 8. VERSION WITH VOIDS</div>							
	8	8	X108	X208	X308								
	10	10	X110	X210	X310								
	12	12	X112	X212	X312								
	14	14	X114	X214	X314								
	16	16	X116	X216	X316								
	18	18	X118	X218	X318								
	20	20	X120	X220	X320								
E	22	22	X122	X222	X322								
	24	24	X124	X224	X324								
	26	26	X126	X226	X326								
	28	28	X128	X228	X328								
	30	30	X130	X230	X330								
	32	32	X132	X232	X332								
	34	34	X134	X234	X334								
	36	36	X136	X236	X336								
D	38	38	X138	X238	X338								
	40	40	X140	X240	X340								
	42	42	X142	X242	X342								
	44	44	X144	X244	X344								
	46	46	X146	X246	X346								
	48	48	X148	X248	X348								
	50	50	X150	X250	X350								
	52	52	X152	X252	X352								
C	54	54	X154	X254	X354								
	56	56	X156	X256	X356								
	58	58	X158	X258	X358								
	60	60	X160	X260	X360								
	62	62	X162	X262	X362								
	64	64	X164	X264	X364								
	66	66	X166	X266	X366								
	68	68	90130-X168	90130-X268	90130-X368								
B	VERSION FULLY LOADED										B		
A	RE-POSITION DIM B EC NO: S2010-0811 DRWN:SKANG CHKD:ATSEE APPR:MLONG			2010/03/25 2010/03/31 2010/03/31	DESCRIPTION	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 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 METRIC	THIRD ANGLE PROJECTION	C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED	SHEET NO. 2 OF 4
	B1			REV	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						

DIMENSION STYLE

MM/IN

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SEE TABLE

SCALE

NTS

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

C-GRID III

DUAL ROW STRAIGHT

SHROUDED HEADER

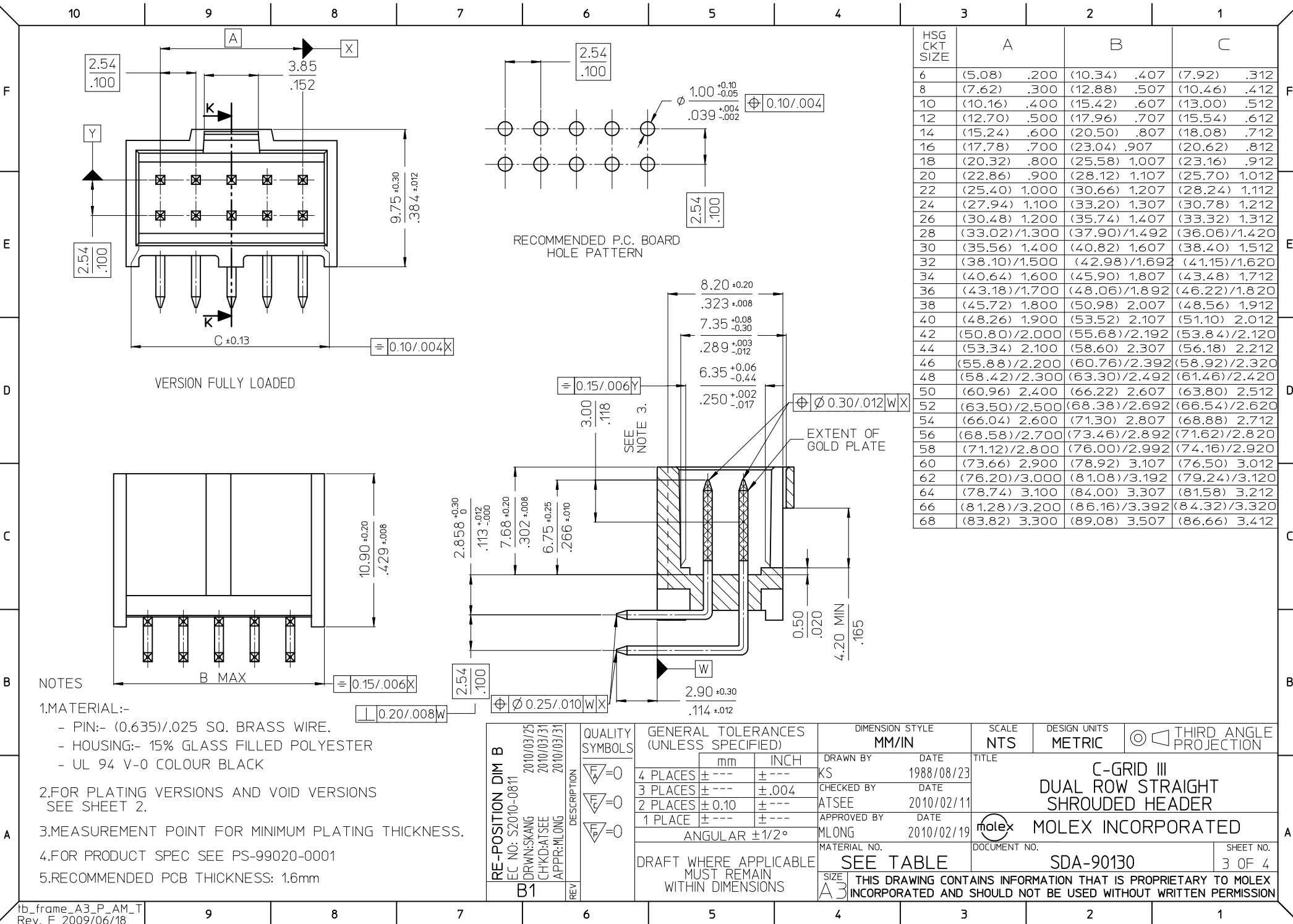
MOLEX INCORPORATED

SDA-90130

SHEET NO.

2 OF 4

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HSG CKT SIZE	A	B	C
6	(5.08) .200	(10.34) .407	(7.92) .312
8	(7.62) .300	(12.88) .507	(10.46) .412
10	(10.16) .400	(15.42) .607	(13.00) .512
12	(12.70) .500	(17.96) .707	(15.54) .612
14	(15.24) .600	(20.50) .807	(18.08) .712
16	(17.78) .700	(23.04) .907	(20.62) .812
18	(20.32) .800	(25.58) 1.007	(23.16) .912
20	(22.86) .900	(28.12) 1.107	(25.70) 1.012
22	(25.40) 1.000	(30.66) 1.207	(28.24) 1.112
24	(27.94) 1.100	(33.20) 1.307	(30.78) 1.212
26	(30.48) 1.200	(35.74) 1.407	(33.32) 1.312
28	(33.02)/1.300	(37.90)/1.492	(36.06)/1.420
30	(35.56) 1.400	(40.82) 1.607	(38.40) 1.512
32	(38.10)/1.500	(42.98)/1.692	(41.15)/1.620
34	(40.64) 1.600	(45.90) 1.807	(43.48) 1.712
36	(43.18)/1.700	(48.06)/1.892	(46.22)/1.820
38	(45.72) 1.800	(50.98) 2.007	(48.56) 1.912
40	(48.26) 1.900	(53.52) 2.107	(51.10) 2.012
42	(50.80)/2.000	(55.68)/2.192	(53.84)/2.120
44	(53.34) 2.100	(58.60) 2.307	(56.18) 2.212
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	(66.22) 2.607	(63.80) 2.512
52	(63.50)/2.500	(68.38)/2.692	(66.54)/2.620
54	(66.04) 2.600	(71.30) 2.807	(68.88) 2.712
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	(78.92) 3.107	(76.50) 3.012
62	(76.20)/3.000	(81.08)/3.192	(79.24)/3.120
64	(78.74) 3.100	(84.00) 3.307	(81.58) 3.212
66	(81.28)/3.200	(86.16)/3.392	(84.32)/3.320
68	(83.82) 3.300	(89.08) 3.507	(86.66) 3.412

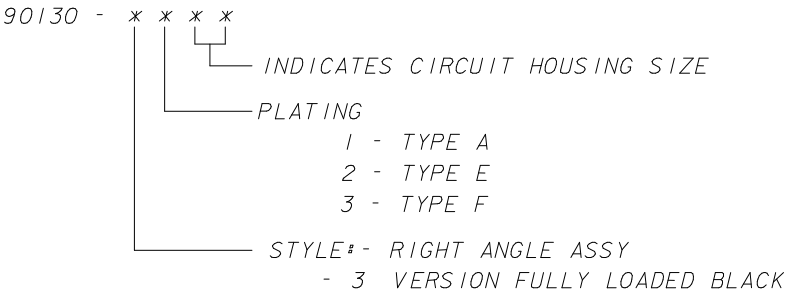
- NOTES
- 1.MATERIAL:-
 - PIN:- (0.635)/.025 SQ. BRASS WIRE.
 - HOUSING:- 15% GLASS FILLED POLYESTER
 - UL 94 V-0 COLOUR BLACK
 - 2.FOR PLATING VERSIONS AND VOID VERSIONS SEE SHEET 2.
 - 3.MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
 - 4.FOR PRODUCT SPEC SEE PS-99020-0001
 - 5.RECOMMENDED PCB THICKNESS: 1.6mm

RE-POSITION DIM B EC NO: S2010-0811 DRWN:KANG CHKD:ATSEE APPR:MLONG B1	2010/03/25 2010/03/31 2010/03/31 2010/03/31	DESCRIPTION	QUALITY SYMBOLS <div><div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> 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	10	9	8	7	6	5	4	3	2	1	
	NO OF CKTS	HSG CKT SIZE	PART NUMBER								
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F						
F	6	6	90130-X106	90130-X206	90130-X306	<div>NOTES:</div> <div>1. FOR ASSY SEE SHEET 3.</div> <div>2. FOR PLATING DETAILS SEE SDES-99000-0003</div> <div><div>90130 - * * * *</div><div>INDICATES CIRCUIT HOUSING SIZE</div><div>PLATING</div><div>1 - TYPE A</div><div>2 - TYPE E</div><div>3 - TYPE F</div><div>STYLE:- RIGHT ANGLE ASSY</div><div>- 3 VERSION FULLY LOADED BLACK</div></div> <td rowspan="6">F</td>					F
	8	8	X108	X208	X308						
	10	10	X110	X210	X310						
	12	12	X112	X212	X312						
	14	14	X114	X214	X314						
	16	16	X116	X216	X316						
	18	18	X118	X218	X318						E
	20	20	X120	X220	X320						
	22	22	X122	X222	X322						
	24	24	X124	X224	X324						
	26	26	X126	X226	X326						
	28	28	X128	X228	X328						
	30	30	X130	X230	X330						D
	32	32	X132	X232	X332						
	34	34	X134	X234	X334						
	36	36	X136	X236	X336						
	38	38	X138	X238	X338						
	40	40	X140	X240	X340						
	42	42	X142	X242	X342						C
	44	44	X144	X244	X344						
	46	46	X146	X246	X346						
	48	48	X148	X248	X348						
	50	50	X150	X250	X350						
	52	52	X152	X252	X352						
C	54	54	X154	X254	X354						B
	56	56	X156	X256	X356						
	58	58	X158	X258	X358						
	60	60	X160	X260	X360						
	62	62	X162	X262	X362						
	64	64	X164	X264	X364						
	66	66	X166	X266	X366						A
	68	68	90130-X168	90130-X268	90130-X368						
	VERSION FULLY LOADED										
	<div><div>RE-POSITION DIM B</div><div>EC NO: S2010-0811</div><div>DRWN:SKANG 2010/03/25</div><div>CHKD:ATSEE 2010/03/31</div><div>APPR:MLONG 2010/03/31</div><div>B1</div></div> <div><div>QUALITY SYMBOLS</div><div>F=0</div><div>F=0</div><div>F=0</div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div>mm INCH</div><div>4 PLACES ± --- ± ---</div><div>3 PLACES ± --- ± .004</div><div>2 PLACES ± 0.10 ± ---</div><div>1 PLACE ± --- ± ---</div><div>ANGULAR ±1/2°</div><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div></div> <div><div>DIMENSION STYLE</div><div>MM/IN</div><div>DRAWN BY DATE</div><div>KS 1988/08/23</div><div>CHECKED BY DATE</div><div>ATSEE 2010/02/11</div><div>APPROVED BY DATE</div><div>MLONG 2010/02/19</div><div>MATERIAL NO.</div><div>SEE TABLE</div><div>SIZE</div><div>A3</div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div> <div><div>SCALE</div><div>NTS</div><div>DESIGN UNITS</div><div>METRIC</div><div>THIRD ANGLE PROJECTION</div><div>C-GRID III</div><div>DUAL ROW STRAIGHT</div><div>SHROUDED HEADER</div><div>MOLEX INCORPORATED</div><div>DOCUMENT NO.</div><div>SDA-90130</div><div>SHEET NO.</div><div>4 OF 4</div></div>										
tb_frame_A3_P_AM_T	9	8	7	6	5	4	3	2	1		
Rev. F 2009/06/18											

NOTES:

1. FOR ASSY SEE SHEET 3.
2. FOR PLATING DETAILS SEE SDES-99000-0003



NO OF CKTS	HSG CKT SIZE	PART NUMBER		
		PLATING TYPE A	PLATING TYPE E	PLATING TYPE F
6	6	90130-X106	90130-X206	90130-X306
8	8	X108	X208	X308
10	10	X110	X210	X310
12	12	X112	X212	X312
14	14	X114	X214	X314
16	16	X116	X216	X316
18	18	X118	X218	X318
20	20	X120	X220	X320
22	22	X122	X222	X322
24	24	X124	X224	X324
26	26	X126	X226	X326
28	28	X128	X228	X328
30	30	X130	X230	X330
32	32	X132	X232	X332
34	34	X134	X234	X334
36	36	X136	X236	X336
38	38	X138	X238	X338
40	40	X140	X240	X340
42	42	X142	X242	X342
44	44	X144	X244	X344
46	46	X146	X246	X346
48	48	X148	X248	X348
50	50	X150	X250	X350
52	52	X152	X252	X352
54	54	X154	X254	X354
56	56	X156	X256	X356
58	58	X158	X258	X358
60	60	X160	X260	X360
62	62	X162	X262	X362
64	64	X164	X264	X364
66	66	X166	X266	X366
68	68	90130-X168	90130-X268	90130-X368

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

VOIDED OPTION

NOTES:
1. FOR ASSY SEE SHEET 1.
2. FOR PLATING DETAILS SEE SDES-99000-0003

90130 - * * * *
INDICATES CIRCUIT HOUSING SIZE
(EXCEPTION ON VOIDED OPTION -
SEE TABLE FOR HOUSING CIRCUIT SIZE)
PLATING
1 - TYPE A
2 - TYPE E
3 - TYPE F
4 - TYPE G
STYLE* - STRAIGHT ASSY
- 1. VERSION FULLY LOADED BLACK
8. VERSION WITH VOIDS

VERSION FULLY LOADED

Changed 8212 to void 2
EC NO: E2010-0123
DRWN:BMAGUIRE 2009/10/15
CHKD: 2009/10/15
APPR:BMAGUIRE 2009/10/15

DESCRIPTION
REV

QUALITY
SYMBOLS
=0
=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ± ---°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
KS 1987/09/10
CHECKED BY DATE
APPROVED BY DATE
MATERIAL NO.
SIZE A2

SCALE
1:1
DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION
TITLE
C-GRID III DUAL ROW
STRAIGHT SHROUDED
HEADER
MOLEX INCORPORATED
DOCUMENT NO.
SDA-90130
SHEET NO.
2 OF 4

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

lb_frame_A2_P_ME_T
Rev. E 2006/04/15

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