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Part Number: [0901362107](#)
Status: **Active**
Overview: [C-Grid III™](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 7 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

General

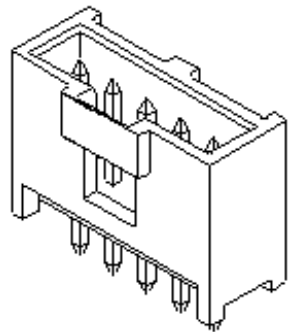
Product Family	PCB Headers
Series	90136
Application	Wire-to-Board
Overview	C-Grid III™
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	7
Circuits (maximum)	7
Color - Resin	Black
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	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	1
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)	0.062 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
Plating min: Mating (µin)	120
Plating min: Mating (µm)	3
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	350V



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
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
[90136Series](#)

Mates With
[90123 C-Grid III™ Modular Crimp Housing.](#)
[90156 C-Grid III™ Crimp Housing](#)

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info

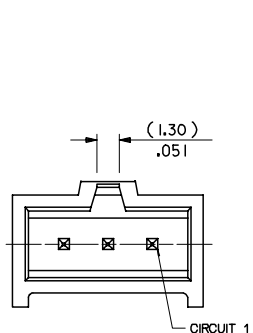
Reference - Drawing Numbers

Sales Drawing

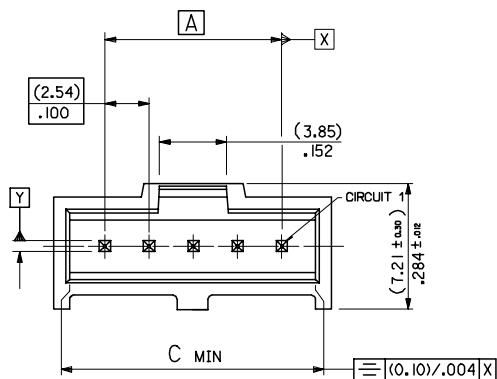
SDA-90136

This document was generated on 03/31/2010

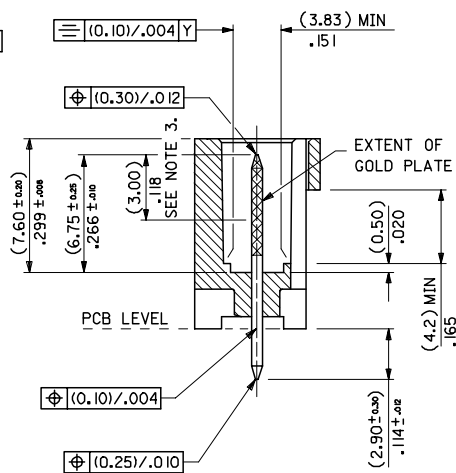
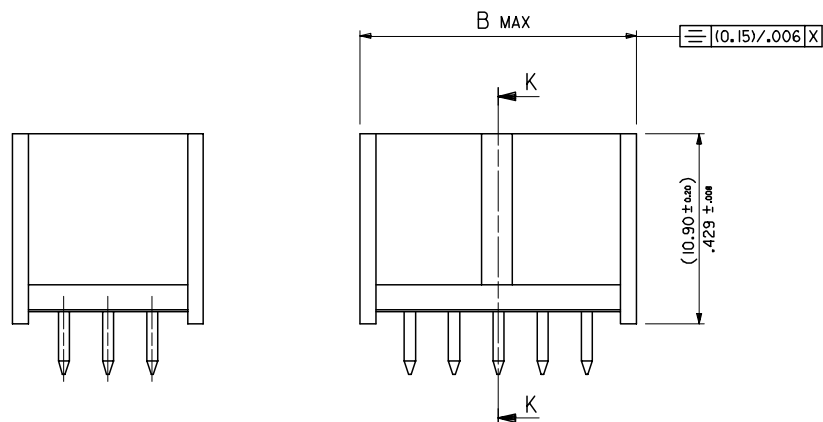
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1 TO 3 CIRCUITS

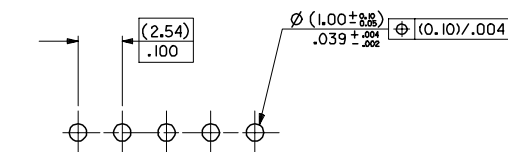


4 TO 32 CIRCUITS



SECTION K-K

No. OF CKTS	DIM A	DIM B	DIM C
1		(5.89) / .232	(4.06) / .160
2	(2.54) / .100	(8.43) / .332	(6.60) / .260
3	(5.08) / .200	(10.97) / .432	(9.14) / .360
4	(7.62) / .300	(13.51) / .532	(11.68) / .460
5	(10.16) / .400	(16.05) / .632	(14.22) / .560
6	(12.70) / .500	(18.59) / .732	(16.76) / .660
7	(15.24) / .600	(21.13) / .832	(19.30) / .760
8	(17.78) / .700	(23.67) / .932	(21.84) / .860
9	(20.32) / .800	(26.21) / 1.032	(24.38) / .960
10	(22.86) / .900	(28.75) / 1.132	(26.92) / 1.060
11	(25.40) / 1.000	(31.29) / 1.232	(29.46) / 1.160
12	(27.94) / 1.100	(33.83) / 1.332	(32.00) / 1.260
13	(30.48) / 1.200	(36.37) / 1.432	(34.54) / 1.360
14	(33.02) / 1.300	(38.91) / 1.532	(37.08) / 1.460
15	(35.56) / 1.400	(41.45) / 1.632	(39.62) / 1.560
16	(38.10) / 1.500	(43.99) / 1.732	(42.16) / 1.660
17	(40.64) / 1.600	(46.53) / 1.832	(44.70) / 1.760
18	(43.18) / 1.700	(49.07) / 1.932	(47.24) / 1.860
19	(45.72) / 1.800	(51.61) / 2.032	(49.78) / 1.960
20	(48.26) / 1.900	(54.15) / 2.132	(52.32) / 2.060
21	(50.80) / 2.000	(56.69) / 2.232	(54.86) / 2.160
22	(53.34) / 2.100	(59.23) / 2.332	(57.40) / 2.260
23	(55.88) / 2.200	(61.77) / 2.432	(59.94) / 2.360
24	(58.42) / 2.300	(64.31) / 2.532	(62.48) / 2.460
25	(60.96) / 2.400	(66.85) / 2.632	(65.02) / 2.560
26	(63.50) / 2.500	(69.39) / 2.732	(67.56) / 2.660
27	(66.04) / 2.600	(71.93) / 2.832	(70.10) / 2.760
28	(68.58) / 2.700	(74.47) / 2.932	(72.64) / 2.860
29	(71.12) / 2.800	(77.01) / 3.032	(75.18) / 2.960
30	(73.66) / 2.900	(79.55) / 3.132	(77.72) / 3.060
31	(76.20) / 3.000	(82.09) / 3.232	(80.26) / 3.160
32	(78.74) / 3.100	(84.63) / 3.332	(82.80) / 3.260



RECOMMENDED P.C. BOARD
HOLE PATTERN

NOTES

1. MATERIAL:-

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

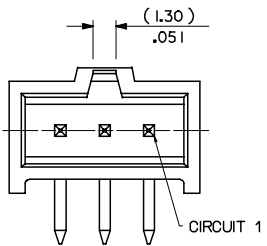
2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

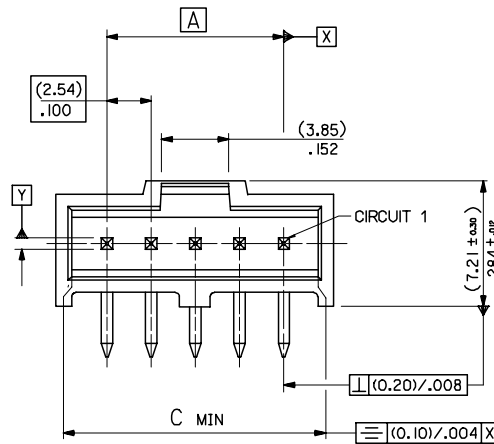
4. PRODUCT SPEC: PS-99020-0001

5. RECOMMENDED PCB THICKNESS 1.6mm

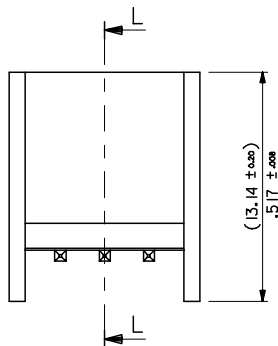
ADDED CIRCUIT 1 INDICATOR EC NO: E2008-0112 DRAWN BY RNS CHKD: CHKD APPR: WALLACE	2007/09/10 2007/09/10 2007/09/11	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY KS	DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER		
				4 PLACES	±---	±---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED		
				3 PLACES	±---	±.004					
				2 PLACES	±0.10	±---	APPROVED BY				DATE
1 PLACE	±---	±---	ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		SDA-90136		1 OF 100			
				SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



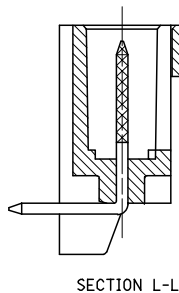
1 TO 3 CIRCUITS



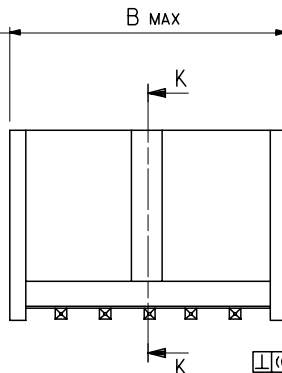
4 TO 32 CIRCUITS



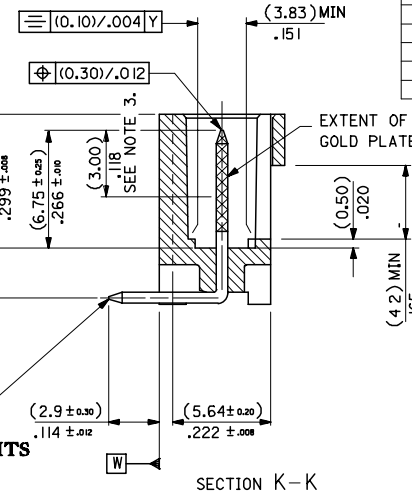
1 TO 6 CIRCUITS



SECTION L-L



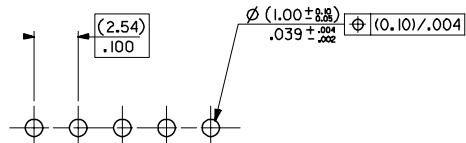
7 TO 32 CIRCUITS



SECTION K-K

No. OF CKTS	DIM A	DIM B	DIM C
1	(5.89) / .232	(4.06) / .160	
2	(2.54) / .100	(8.43) / .332	(6.60) / .260
3	(5.08) / .200	(10.97) / .432	(9.14) / .360
4	(7.62) / .300	(13.51) / .532	(11.68) / .460
5	(10.16) / .400	(16.05) / .632	(14.22) / .560
6	(12.70) / .500	(18.59) / .732	(16.76) / .660
7	(15.24) / .600	(21.13) / .832	(19.30) / .760
8	(17.78) / .700	(23.67) / .932	(21.84) / .860
9	(20.32) / .800	(26.21) / 1.032	(24.38) / .960
10	(22.86) / .900	(28.75) / 1.132	(26.92) / 1.060
11	(25.40) / 1.000	(31.29) / 1.232	(29.46) / 1.160
12	(27.94) / 1.100	(33.83) / 1.332	(32.00) / 1.260
13	(30.48) / 1.200	(36.37) / 1.432	(34.54) / 1.360
14	(33.02) / 1.300	(38.91) / 1.532	(37.08) / 1.460
15	(35.56) / 1.400	(41.45) / 1.632	(39.62) / 1.560
16	(38.10) / 1.500	(43.99) / 1.732	(42.16) / 1.660
17	(40.64) / 1.600	(46.53) / 1.832	(44.70) / 1.760
18	(43.18) / 1.700	(49.07) / 1.932	(47.24) / 1.860
19	(45.72) / 1.800	(51.61) / 2.032	(49.78) / 1.960
20	(48.26) / 1.900	(54.15) / 2.132	(52.32) / 2.060
21	(50.80) / 2.000	(56.69) / 2.232	(54.86) / 2.160
22	(53.34) / 2.100	(59.23) / 2.332	(57.40) / 2.260
23	(55.88) / 2.200	(61.77) / 2.432	(59.94) / 2.360
24	(58.42) / 2.300	(64.31) / 2.532	(62.48) / 2.460
25	(60.96) / 2.400	(66.85) / 2.632	(65.02) / 2.560
26	(63.50) / 2.500	(69.39) / 2.732	(67.56) / 2.660
27	(66.04) / 2.600	(71.93) / 2.832	(70.10) / 2.760
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29	(71.12) / 2.800	(77.01) / 3.032	(75.18) / 2.960
30	(73.66) / 2.900	(79.55) / 3.132	(77.72) / 3.060
31	(76.20) / 3.000	(82.09) / 3.232	(80.26) / 3.160
32	(78.74) / 3.100	(84.63) / 3.332	(82.80) / 3.260

RECOMMENDED P.C. BOARD HOLE PATTERN



NOTES

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

CIRCUIT 1 IDENTIFIED EC NO: E2008-0112 DRAWN BY: JAMES CHKD: 2007/09/10 APPR: WALLACE 2007/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 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		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			DRAWN BY DATE KS1987/09/29		TITLE C-GRID 111 SINGLE ROW RIGHT ANGLE SHROUDED HEADER				
			CHECKED BY DATE		MOLEX MOLEX INCORPORATED				
			APPROVED BY DATE		DOCUMENT NO. SDA-90136				
			MATERIAL NO.		SHEET NO. 3 OF 100				
			SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

	PART NUMBERS		
NO. OF CKTS	PLATING TYPE A	PLATING TYPE E	PLATING TYPE F
1	90136-2101	90136-2201	90136-2301
2	▲ -2102	▲ -2202	▲ -2302
3	-2103	-2203	-2303
4	-2104	-2204	-2304
5	-2105	-2205	-2305
6	-2106	-2206	-2306
7	-2107	-2207	-2307
8	-2108	-2208	-2308
9	-2109	-2209	-2309
10	-2110	-2210	-2310
11	-2111	-2211	-2311
12	-2112	-2212	-2312
13	-2113	-2213	-2313
14	-2114	-2214	-2314
15	-2115	-2215	-2315
16	-2116	-2216	-2316
17	-2117	-2217	-2317
18	-2118	-2218	-2318
19	-2119	-2219	-2319
20	-2120	-2220	-2320
21	-2121	-2221	-2321
22	-2122	-2222	-2322
23	-2123	-2223	-2323
24	-2124	-2224	-2324
25	-2125	-2225	-2325
26	-2126	-2226	-2326
27	-2127	-2227	-2327
28	-2128	-2228	-2328
29	-2129	-2229	-2329
30	-2130	-2230	-2330
31	▼ -2131	▼ -2231	▼ -2331
32	90136-2132	90136-2232	90136-2332

NOTES

I.FOR ASSY SEE SHEET 3

2.FOR PLATING DETAILS SEE SDES 99000-0003

90136 - X X X X

— INDICATES No. OF CIRCUITS

— PLATING

I - TYPE A

2 - TYPE E

3 - TYPE F

— STYLE:- 2 - RIGHT ANGLE ASSY

UPDATED TABLE EC NO: E2007-1001 DRAWN BY: BYRNES CHKD: APPR: EOMAHONY 2007/06/07 2007/06/07 2007/06/07	DESCRIPTION	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE C-GRID SHRD HDR SR VT				
			4 PLACES ± ---	± ---	KS	1987/09/28					
			3 PLACES ± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED				
			2 PLACES ± ---	± ---	RD	1991/10/16					
			1 PLACE ± ---	± ---	APPROVED BY	DATE	SHEET NO. 4 OF 8				
			ANGULAR ± ---°		NW	1991/10/17					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-90136				
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						