

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901362210

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 10 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating

Documents:

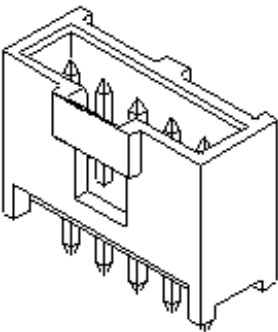
3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

General	
Product Family	PCB Headers
Series	90136
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™
Physical	
Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
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	Gold
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)	15.2
Plating min: Mating (µm)	0.38
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

Not Reviewed

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

Packaging Specification

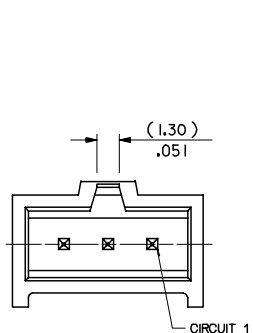
PK-90136-001

Sales Drawing

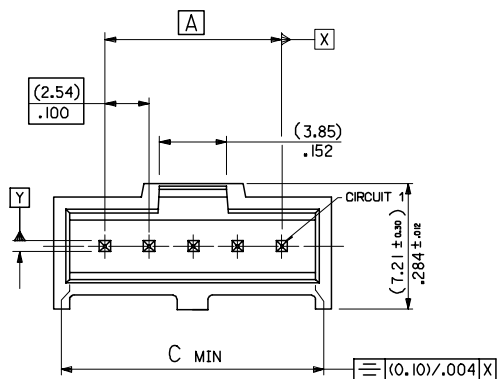
SDA-90136

This document was generated on 05/26/2010

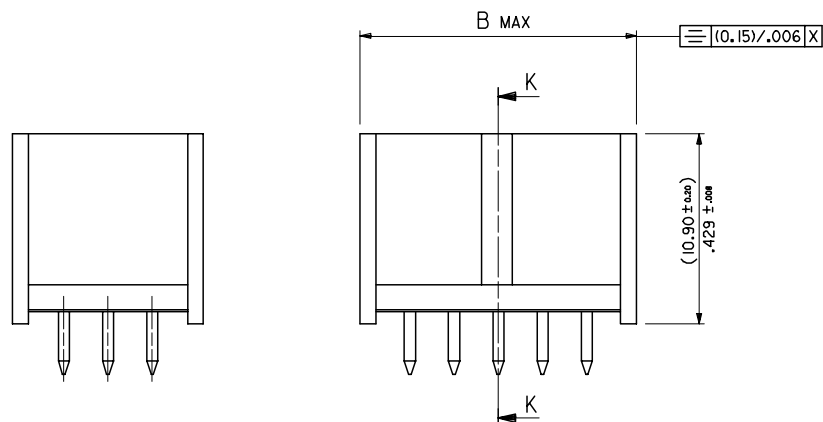
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1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

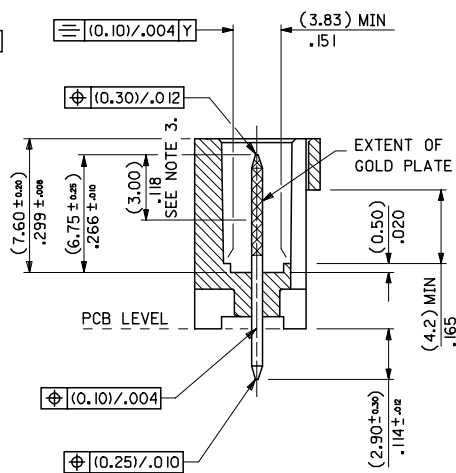
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

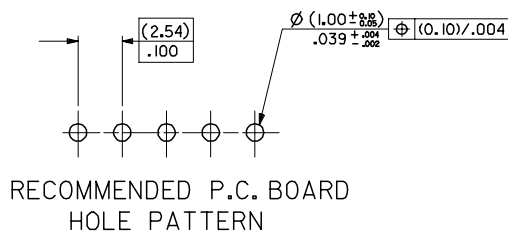
4. PRODUCT SPEC: PS-99020-0001

5. RECOMMENDED PCB THICKNESS 1.6mm



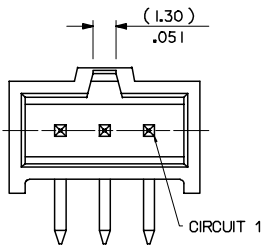
SECTION K-K

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

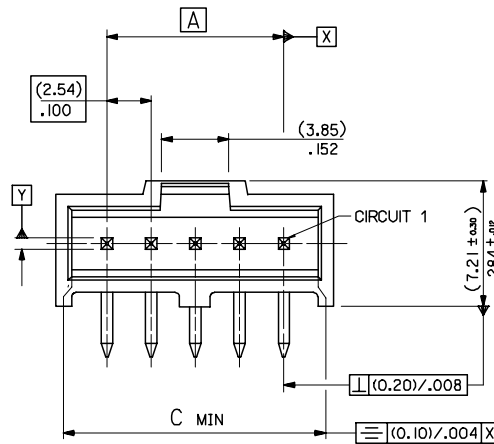


RECOMMENDED P.C. BOARD
HOLE PATTERN

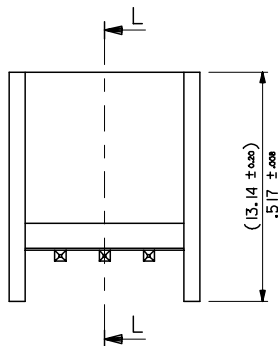
ADDED CIRCUIT 1 INDICATOR EC NO: E2008-0112 DRAWN BY: DRW:NB/BNES CHKD: 2007/09/10 APPR: JWALLACE 2007/09/11 REV: Z	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><th></th><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr><tr><td>3 PLACES</td><td>±---</td><td>±.004</td></tr><tr><td>2 PLACES</td><td>±0.10</td><td>±---</td></tr><tr><td>1 PLACE</td><td>±---</td><td>±---</td></tr></table> ANGULAR ±1/2°		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±.004	2 PLACES	±0.10	±---	1 PLACE	±---	±---	DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																	
			4 PLACES	±---	±---																	
			3 PLACES	±---	±.004																	
2 PLACES	±0.10	±---																				
1 PLACE	±---	±---																				
DRAWN BY KS		DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER																			
CHECKED BY		DATE	MOLEX MOLEX INCORPORATED																			
APPROVED BY		DATE	MATERIAL NO. DOCUMENT NO. SHEET NO. SEE CHART SDA-90136 1 OF 100																			
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																				



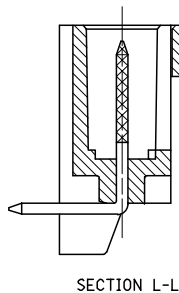
1 TO 3 CIRCUITS



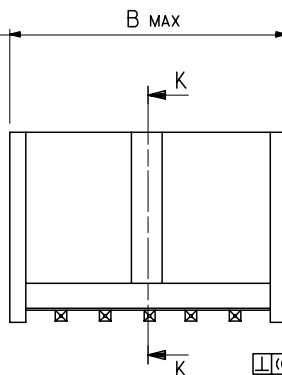
4 TO 32 CIRCUITS



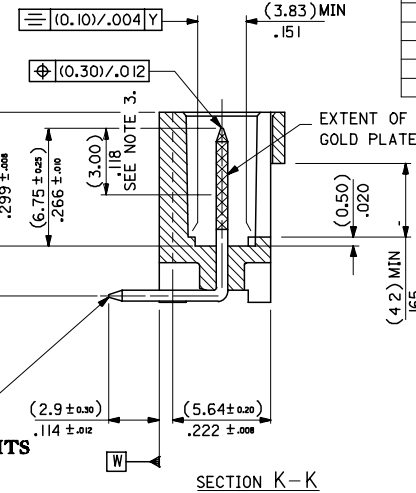
1 TO 6 CIRCUITS



SECTION L-L



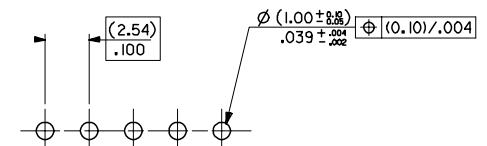
7 TO 32 CIRCUITS



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
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

- 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: JAMES APPR: WALLACE	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 1987/09/29	TITLE C-GRID 111 SINGLE ROW RIGHT ANGLE SHROUDED HEADER					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± .004	APPROVED BY		DATE	MOLEX INCORPORATED				
			2 PLACES	± 0.10	± ---								
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO. 3 OF 100				
			ANGULAR ±1/2°										
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SDA-90136					
						SIZE A2		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	
F			PART NUMBERS								F
		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						
E		6	-2106	-2206	-2306						E
		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						
D		14	-2114	-2214	-2314						D
		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						
C		23	-2123	-2223	-2323						C
		24	-2124	-2224	-2324						
		25	-2125	-2225	-2325						
		26	-2126	-2226	-2326						
		27	-2127	-2227	-2327						
		28	-2128	-2228	-2328						
		29	-2129	-2229	-2329						
B		30	-2130	-2230	-2330						B
		31	▼ -2131	▼ -2231	▼ -2331						
		32	90136-2132	90136-2232	90136-2332						
A											A
	10	9	8	7	6	5	4	3	2	1	

NOTES

1.FOR ASSY SEE SHEET 3

2.FOR PLATING DETAILS SEE SDES 99000-0003

90136 - X X X X

INDICATES No. OF CIRCUITS

PLATING

1 - TYPE A

2 - TYPE E

3 - TYPE F

STYLE:- 2 - RIGHT ANGLE ASSY

UPDATED TABLE

EC NO: E2007-1001

DRWN:DBYRNES

CHKD:

APPR:EOMAHONY

2007/06/07

2007/06/07

2007/06/07

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	1987/09/28
CHECKED BY	DATE
RD	1991/10/16
APPROVED BY	DATE
NW	1991/10/17

MATERIAL NO.

SIZE

A3

SCALE

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE	C-GRID SHRD HDR SR VT
MOLEX INCORPORATED	
DOCUMENT NO.	SDA-90136
SHEET NO.	4 OF 8

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

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Rev. E 2006/04/15