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Part Number:

0901362318

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 18 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

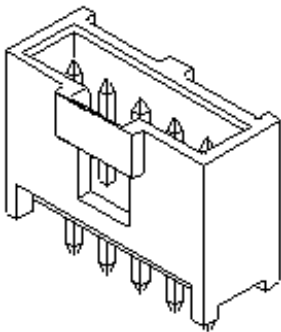
3D Model

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)	18
Circuits (maximum)	18
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)	30.48
Plating min: Mating (µm)	0.762
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

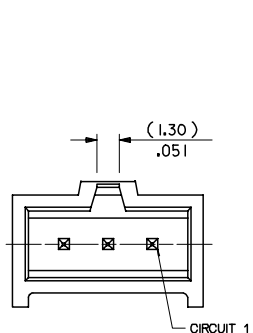
Material Info

Reference - Drawing Numbers

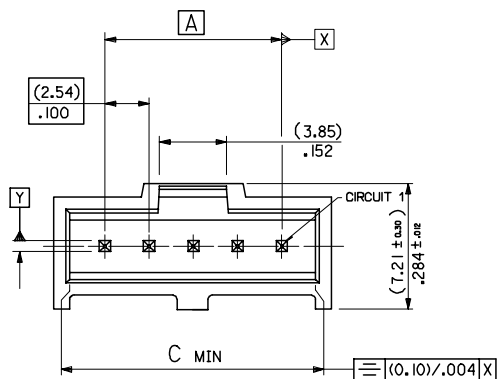
Packaging Specification	PK-90136-001
Sales Drawing	SDA-90136

This document was generated on 05/26/2010

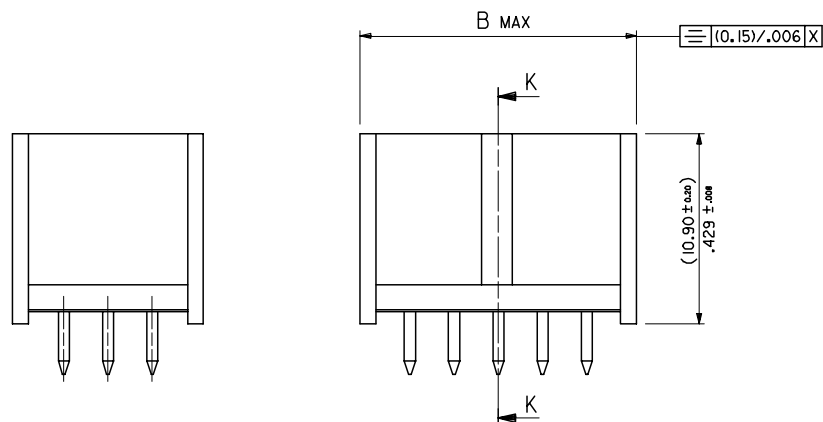
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1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

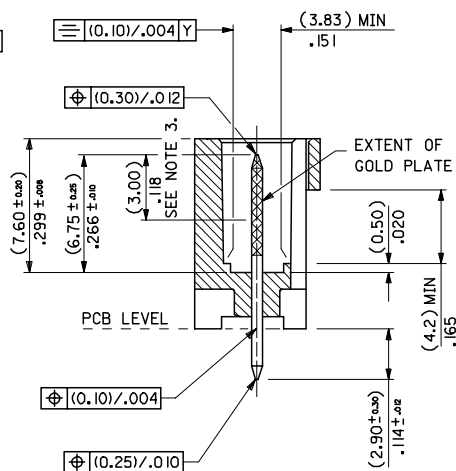
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

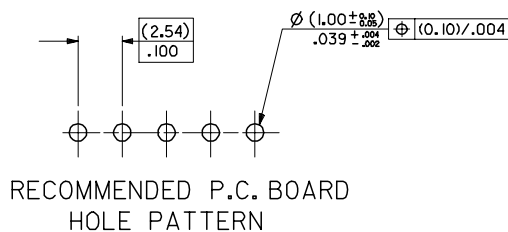
4. PRODUCT SPEC: PS-99020-0001

5. RECOMMENDED PCB THICKNESS 1.6mm



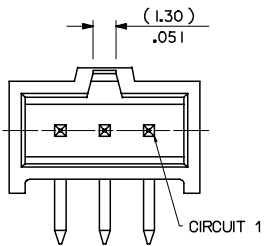
SECTION K-K

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

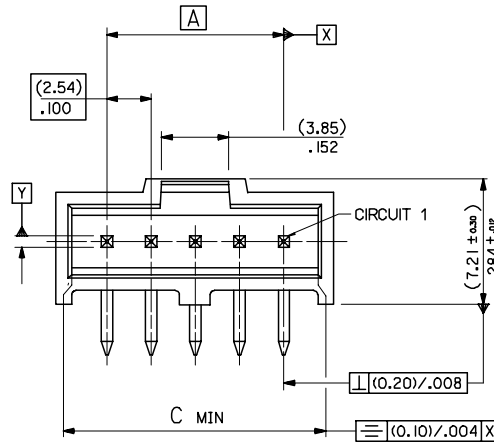


RECOMMENDED P.C. BOARD
HOLE PATTERN

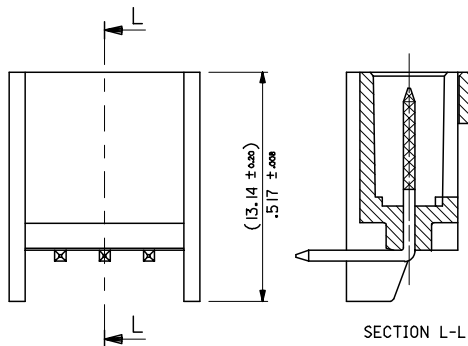
ADDED CIRCUIT 1 INDICATOR EC NO: E2008-0112 DRAWN BY: DRW:NB/BN/MS CHKD: 2007/09/10 APPR: WALLACE 2007/09/11 REV: Z	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><th></th><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><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><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .004	2 PLACES	± 0.10	± ---	1 PLACE	± ---	± ---	ANGULAR ±1/2°			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	± ---	± ---																				
			ANGULAR ±1/2°																						
			DRAWN BY KS		DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER																			
			CHECKED BY		DATE																				
			APPROVED BY		DATE	molex MOLEX INCORPORATED																			
MATERIAL NO.		DOCUMENT NO.	SDA-90136			SHEET NO. 1 OF 100																			
SEE CHART																									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																									
SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																							



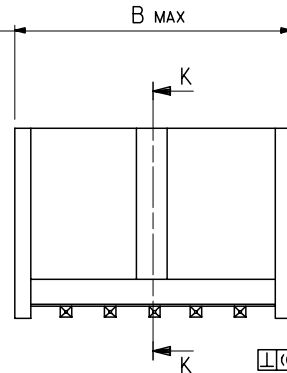
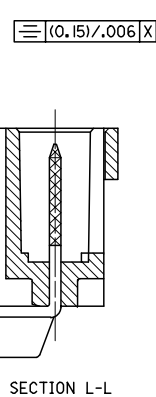
1 TO 3 CIRCUITS



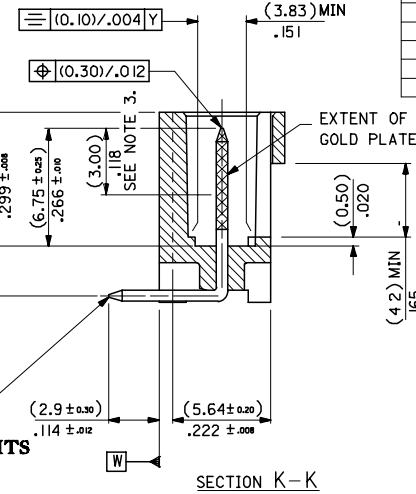
4 TO 32 CIRCUITS



1 TO 6 CIRCUITS

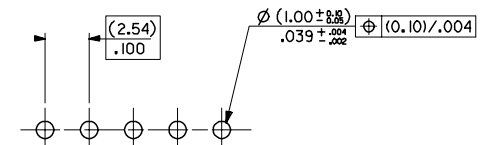


7 TO 32 CIRCUITS



RECOMMENDED P.C. BOARD HOLE PATTERN

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1	(5.89) / .232	(4.06) / .160	
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17	(40.64) / 1.600	(46.53) / 1.832	(44.70) / 1.760
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22	(53.34) / 2.100	(59.23) / 2.332	(57.40) / 2.260
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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



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	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO: E2008-0112	▽=0	4 PLACES ± ---	MM/IN	5:1	METRIC	
EC NO: E2008-0112	▽=0	3 PLACES ± ---				
EC NO: E2008-0112	▽=0	2 PLACES ± 0.10				
EC NO: E2008-0112	▽=0	1 PLACE ± ---				
EC NO: E2008-0112	▽=0	ANGULAR ± 1/2°				
EC NO: E2008-0112	▽=0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
EC NO: E2008-0112	▽=0	SEE CHART				
EC NO: E2008-0112	▽=0	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

