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Part Number:

0901361208

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 8 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating

Documents:

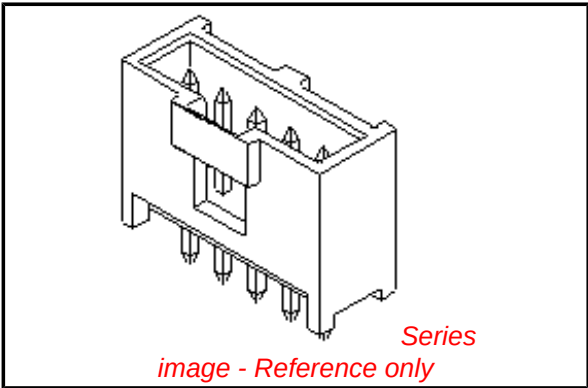
3D Model

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)	8
Circuits (maximum)	8
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	Vertical
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



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)
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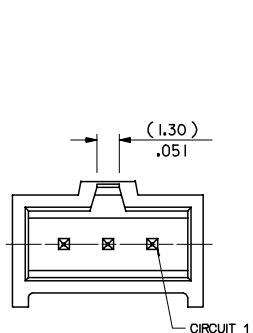
Material Info

Reference - Drawing Numbers

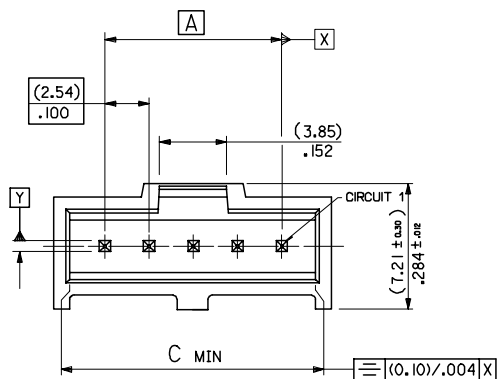
Packaging Specification	PK-90136-001
Sales Drawing	SDA-90136

This document was generated on 05/26/2010

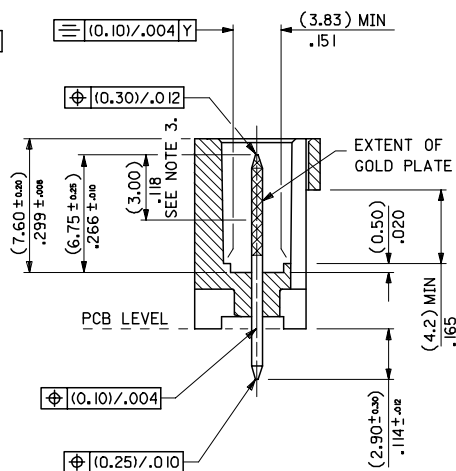
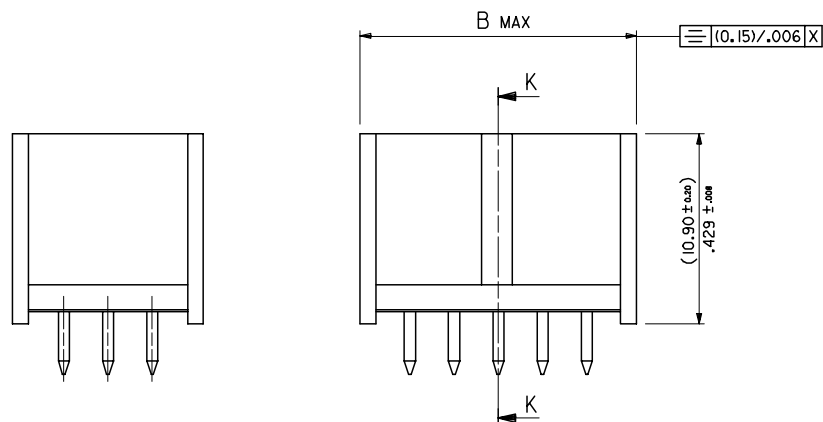
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1 TO 3 CIRCUITS

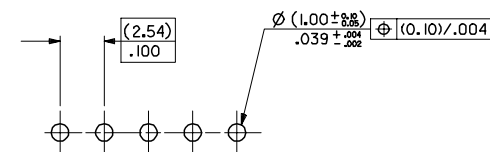


4 TO 32 CIRCUITS



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: BRYAN CHKD: 2007/09/10 APPR: WALLACE 2007/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></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		MOLEX INCORPORATED																					
APPROVED BY		DATE		MATERIAL NO. SEE CHART																					
DOCUMENT NO. SDA-90136		SHEET NO. 1 OF 100		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															
SEE CHART SDA-90136	PART NUMBERS																									
	NO. OF CKTS	PLATING TYPE A	PLATING TYPE E	PLATING TYPE F																						
	1	90136-1101	90136-1201	90136-1301																						
	2	▲ -1102	▲ -1202	▲ -1302																						
	3	▲ -1103	▲ -1203	▲ -1303																						
	4	▲ -1104	▲ -1204	▲ -1304																						
	5	▲ -1105	▲ -1205	▲ -1305																						
	6	▲ -1106	▲ -1206	▲ -1306																						
	7	▲ -1107	▲ -1207	▲ -1307																						
	8	▲ -1108	▲ -1208	▲ -1308																						
	9	▲ -1109	▲ -1209	▲ -1309																						
	10	▲ -1110	▲ -1210	▲ -1310																						
	11	▲ -1111	▲ -1211	▲ -1311																						
	12	▲ -1112	▲ -1212	▲ -1312																						
	13	▲ -1113	▲ -1213	▲ -1313																						
	14	▲ -1114	▲ -1214	▲ -1314																						
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	16	▲ -1116	▲ -1216	▲ -1316																						
	17	▲ -1117	▲ -1217	▲ -1317																						
	18	▲ -1118	▲ -1218	▲ -1318																						
	19	▲ -1119	▲ -1219	▲ -1319																						
	20	▲ -1120	▲ -1220	▲ -1320																						
	21	▲ -1121	▲ -1221	▲ -1321																						
	22	▲ -1122	▲ -1222	▲ -1322																						
	23	▲ -1123	▲ -1223	▲ -1323																						
	24	▲ -1124	▲ -1224	▲ -1324																						
	25	▲ -1125	▲ -1225	▲ -1325																						
	26	▲ -1126	▲ -1226	▲ -1326																						
	27	▲ -1127	▲ -1227	▲ -1327																						
	28	▲ -1128	▲ -1228	▲ -1328																						
	29	▲ -1129	▲ -1229	▲ -1329																						
	30	▲ -1130	▲ -1230	▲ -1330																						
	31	▼ -1131	▼ -1231	▼ -1331																						
	32	90136-1132	90136-1232	90136-1332																						
NOTES 1.FOR ASSY SEE SHEET 1 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:- 1 - STRAIGHT ASSY																										
CORRECTED TABLE EC NO: E2007-1001 DRWN:DBYRNES 2007/06/07 CHKD: 2007/06/07 APPR:EOMAHONY 2007/06/07	QUALITY SYMBOLS ▼=0 ◻=0		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																	
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		mm	INCH																							
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				MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-90136		SHEET NO. 2 OF 8																		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				
ib_frame_A3_P_ME_T Rev. E 2006/04/15		9	8	7	6	5	4	3	2	1																