

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901361112

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 12 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

General

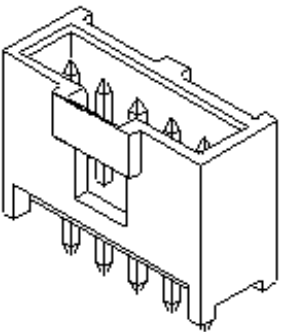
Product Family	PCB Headers
Series	90136
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
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	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)	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

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

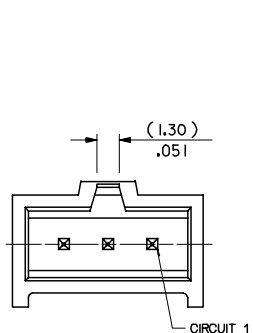
PK-90136-001

Sales Drawing

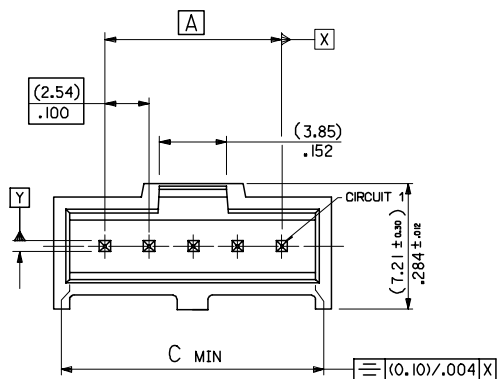
SDA-90136

This document was generated on 05/26/2010

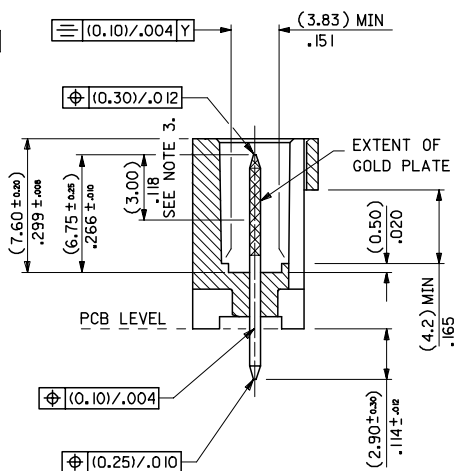
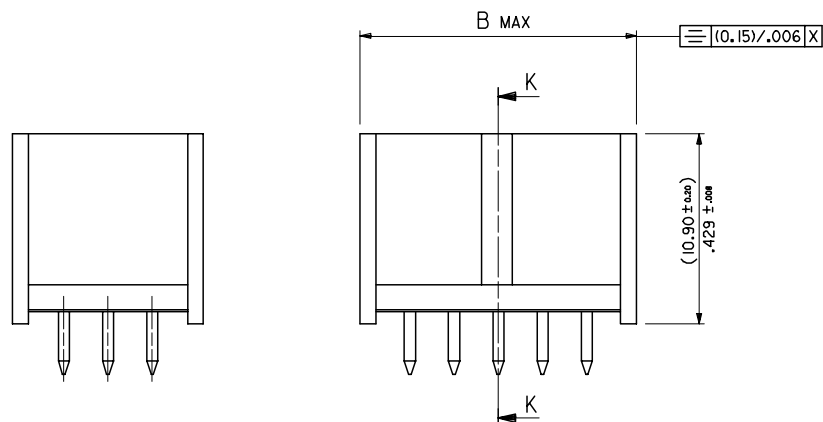
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1 TO 3 CIRCUITS

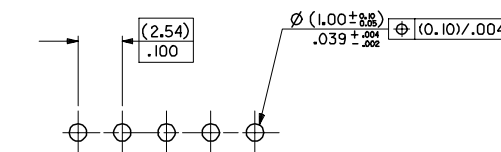


4 TO 32 CIRCUITS



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	(25.4) / 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 CIRCUT 1 INDICATOR EC NO: E2008-0112 DRAWN BY: RNS CHKD: CHD APPR: WALLACE	2007/09/10 2007/09/10 2007/09/11	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
						MM/IN		5:1	METRIC	⊙ □		
				mm	INCH	DRAWN BY	DATE	TITLE		C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER		
				4 PLACES	± ---	± ---	KS	1987/10/30				
				3 PLACES	± ---	± .004	CHECKED BY	DATE				
2 PLACES	± 0.10	± ---	APPROVED BY		DATE	MOLEX MOLEX INCORPORATED						
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						

		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								
	15	-1115	-1215	-1315								
	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												