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Part Number: [0901361125](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 25 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

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

General

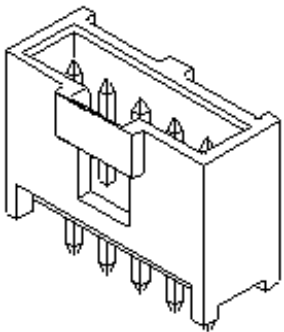
Product Family	PCB Headers
Series	90136
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	25
Circuits (maximum)	25
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

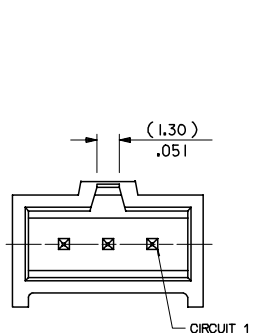
PK-90136-001

Sales Drawing

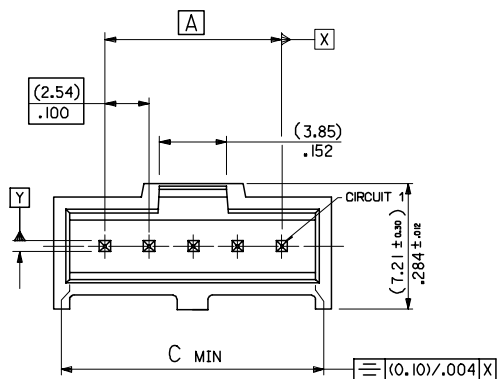
SDA-90136

This document was generated on 05/26/2010

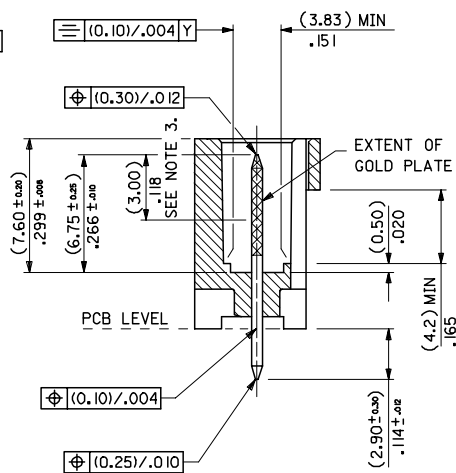
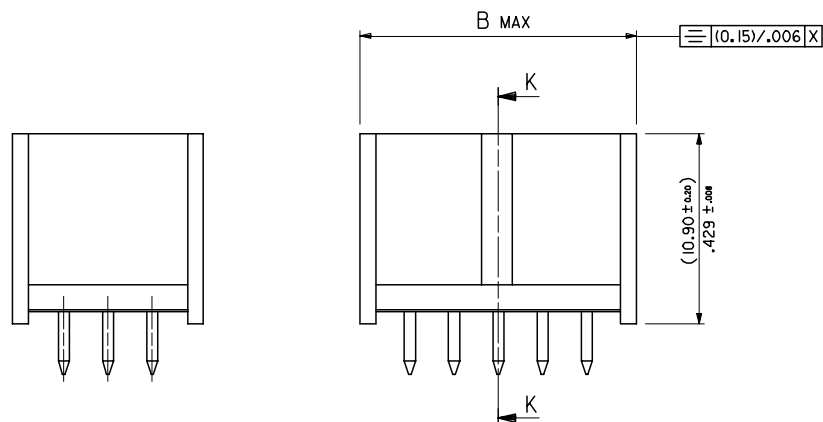
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1 TO 3 CIRCUITS

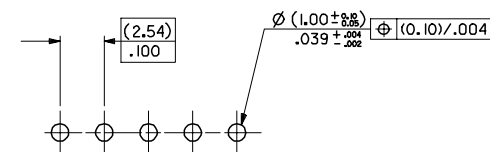


4 TO 32 CIRCUITS



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	(25.40) / 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: RAMESH CHKD: 2007/09/10 APPR: J. WALLACE 2007/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- 3 PLACES ± --- 2 PLACES ± 0.10 1 PLACE ± ---	mm INCH	± .004 ± .004 ± .004 ± .004	± .004 ± .004 ± .004 ± .004	DRAWN BY KS	DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER	
REV Z	DESCRIPTION ADDITIONAL INFORMATION	ANGULAR ± 1/2°		APPROVED BY DATE		MATERIAL NO. DOCUMENT NO.		MOLEX INCORPORATED	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90136		SHEET NO. 1 OF 100	

	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											
</											