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Part Number:

0901361105

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 5 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

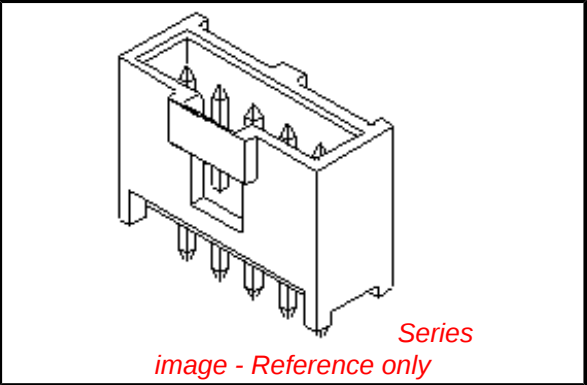
3D Model

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)	5
Circuits (maximum)	5
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



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

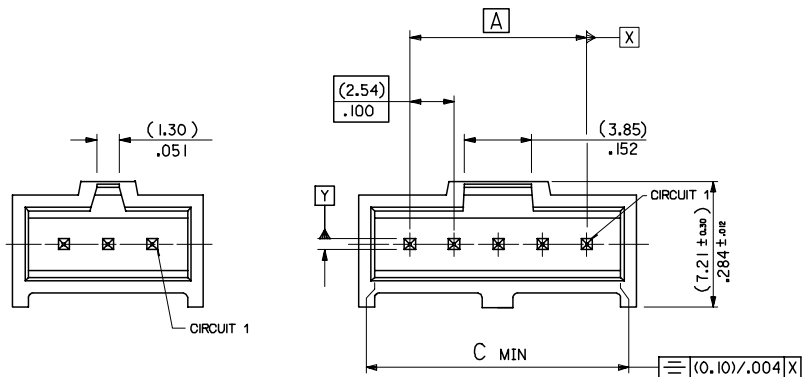
Material Info

Reference - Drawing Numbers

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

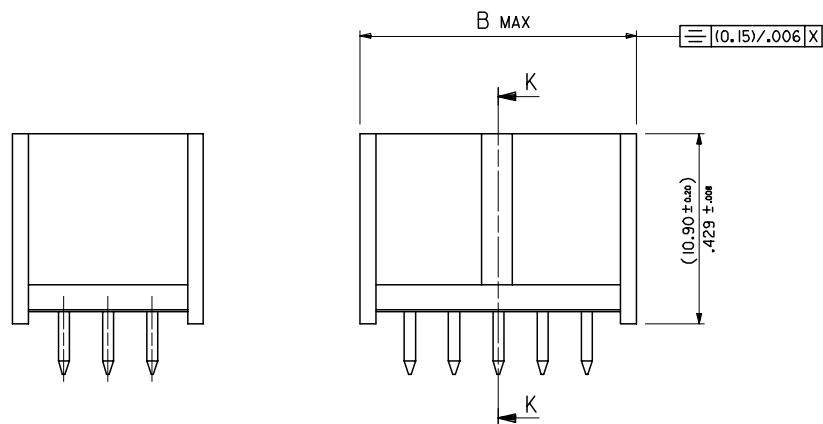
This document was generated on 05/26/2010

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1 TO 3 CIRCUITS

4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

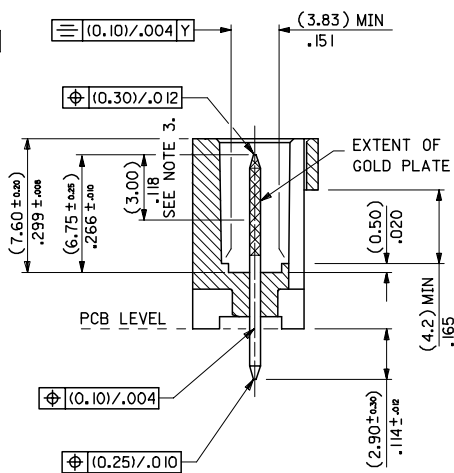
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

4. PRODUCT SPEC: PS-99020-0001

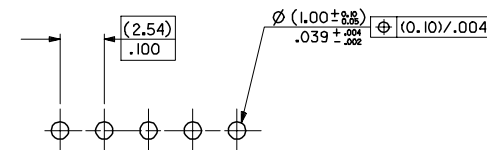
5. RECOMMENDED PCB THICKNESS 1.6mm



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		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: E2008-0112		DRAWN BY: DRW:NB/BN/MS		mm		MM/IN		5:1		METRIC			
2007/09/10		2007/09/10		4 PLACES ± ---		KS		DATE		DATE		TITLE	
2007/09/10		2007/09/10		3 PLACES ± ---		± .004		DATE		DATE		C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER	
2007/09/11		2007/09/11		2 PLACES ± 0.10		± ---		DATE		DATE		MOLEX INCORPORATED	
2007/09/11		2007/09/11		1 PLACE ± ---		± ---		DATE		DATE		SDA-90136	
2007/09/11		2007/09/11		ANGULAR ± 1/2°		± ---		DATE		DATE		SHEET NO.	
2007/09/11		2007/09/11		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DATE		DATE		1 OF 100	
2007/09/11		2007/09/11		MATERIAL NO.		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO.		DATE			

	10	9	8	7	6	5	4	3	2	1									
F	SEE CHART SDA-90136	PART NUMBERS									F								
		NO. OF CKTS	PLATING TYPE A	PLATING TYPE E	PLATING TYPE F														
		1	90136-1101	90136-1201	90136-1301														
E		2	▲ -1102	▲ -1202	▲ -1302							E							
		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														
D		12	-1112	-1212	-1312						D								
		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														
C		22	-1122	-1222	-1322						C								
		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														
B		32	90136-1132	90136-1232	90136-1332						B								
A					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						A								
		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						
									DRAWN BY DATE		TITLE								
							4 PLACES ± --- ± ---		KS 1987/09/28		C-GRID 111								
							3 PLACES ± --- ± ---		CHECKED BY DATE		SINGLE ROW STRAIGHT								
							2 PLACES ± --- ± ---		APPROVED BY DATE		SHROUDED HEADER								
							1 PLACE ± --- ± ---				MOLEX INCORPORATED								
							ANGULAR ± ---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.						
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE CHART		SDA-90136						
							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
								</											