

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901361103

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 3 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)

3

Circuits (maximum)

3

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

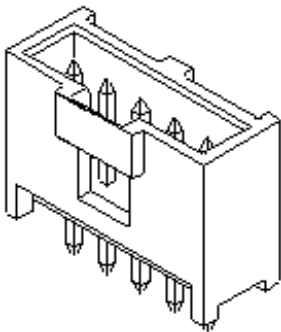
Electrical

Current - Maximum per Contact

3A

Voltage - Maximum

350V



Series
image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

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

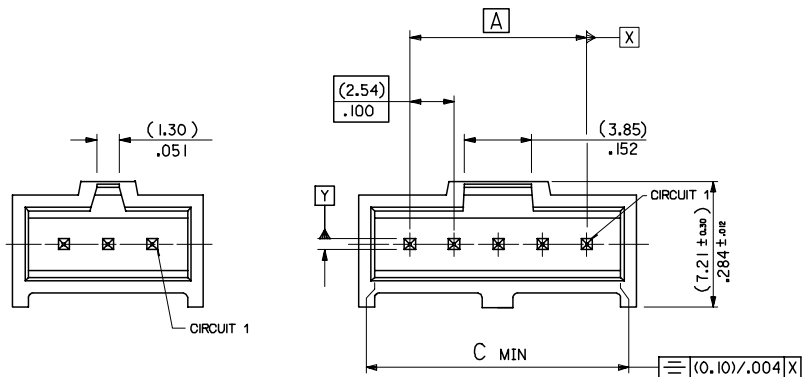
PK-90136-001

Sales Drawing

SDA-90136

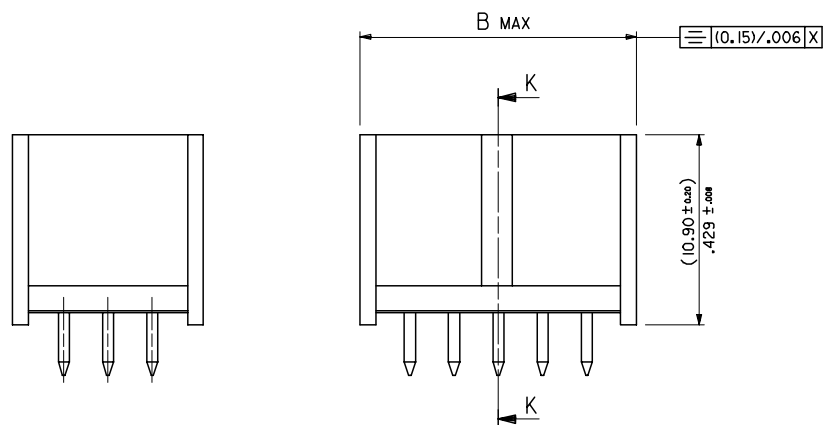
This document was generated on 05/26/2010

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1 TO 3 CIRCUITS

4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

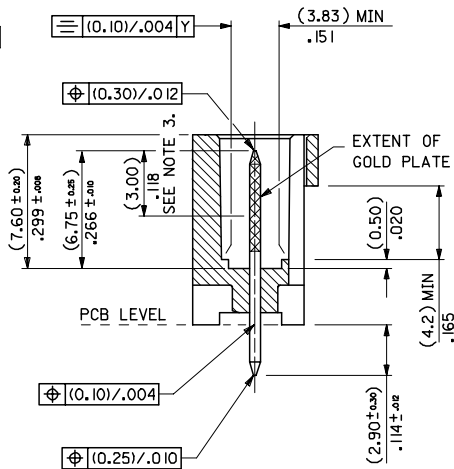
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

4. PRODUCT SPEC: PS-99020-0001

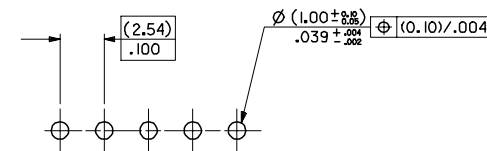
5. RECOMMENDED PCB THICKNESS 1.6mm



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. 1 OF 100	
2007/09/11		2007/09/11		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DATE		DATE			
2007/09/11		2007/09/11				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		
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												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

CORRECTED TABLE EC NO: E2007-1001 DRWN:DBYRNES 2007/06/07 CHKD: 2007/06/07 APPR:EOMAHONY 2007/06/07	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
					mm	INCH	DRAWN BY KS	DATE 1987/09/28	C-GRID 111 SINGLE ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED					
				4 PLACES	±---	±---	CHECKED BY	DATE						
				3 PLACES	±---	±---								
				2 PLACES	±---	±---								
				1 PLACE	±---	±---	APPROVED BY		DATE	DOCUMENT NO. SDA-90136				
				ANGULAR ±----										
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		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				

tb_frame_A3_P_ME_T
Rev. E 2006/04/15

	9	8	7	6	5	4	3	2	1	
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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 N			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				▽=0 ◻=0		mm	INCH	DRAWN BY	DATE	TITLE C-GRID 111 SINGLE ROW STRAIGHT SHROUDED HEADER				
					4 PLACES	± ---	± ---	KS	1987/09/28					
					3 PLACES	± ---	± ---	CHECKED BY		DATE				
					2 PLACES	± ---	± ---	APPROVED BY		DATE	MOLEX INCORPORATED			
1 PLACE	± ---	± ---	DATE											
					ANGULAR ± ---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90136		2 OF 8			
			REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						