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Part Number: [0901361114](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 14 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

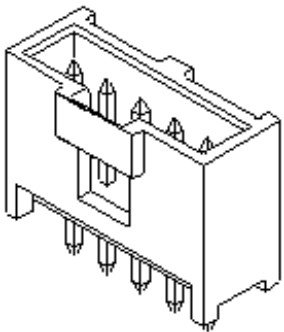
[3D Model](#) [Product Specification PS-99020-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [90136](#)
Application Wire-to-Board
Overview [cgrid_iii](#)
Product Name C-Grid III™

Physical

Breakaway No
Circuits (Loaded) 14
Circuits (maximum) 14
Color - Resin Black
Durability (mating cycles max) 30
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) 0.063 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
Pitch - Term. Interface (in) 0.100 In
Pitch - Term. 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 Mating Part No
Polarized to PCB No
Shrouded Closed Ends
Stackable No
Surface Mount Compatible (SMC) No
Temperature Range - Operating -55°C to +125°C
Termination Interface: Style Through Hole



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



Not Reviewed

**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](#)

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	350V AC/DC

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
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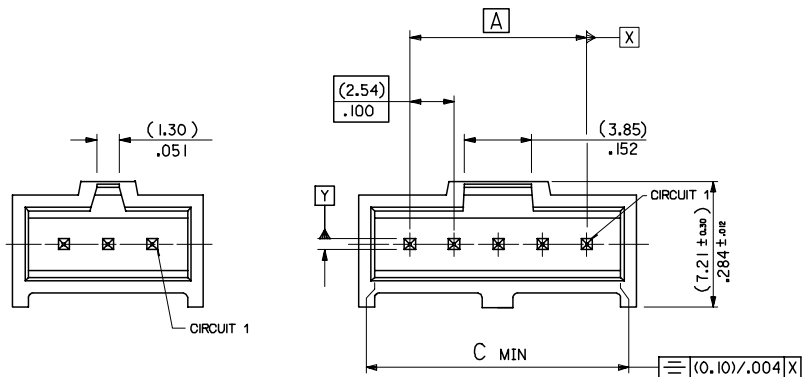
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-90136-001
Product Specification	PS-99020-0001
Sales Drawing	SDA-90136

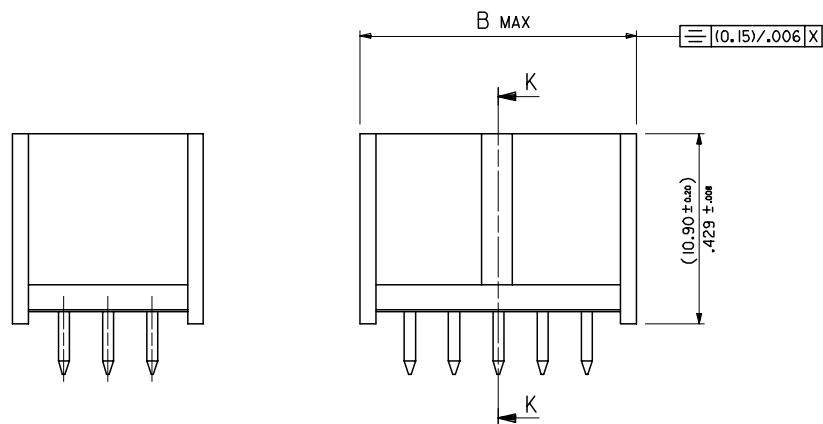
This document was generated on 05/26/2010

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1 TO 3 CIRCUITS

4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

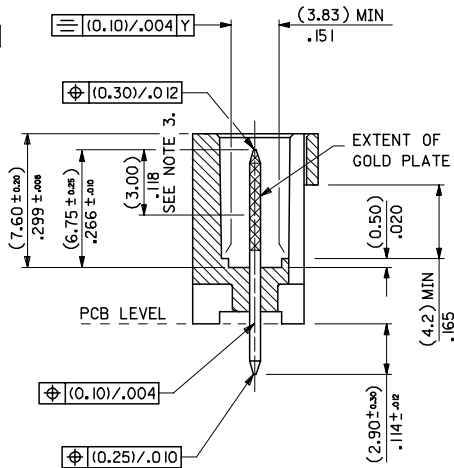
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

4. PRODUCT SPEC: PS-99020-0001

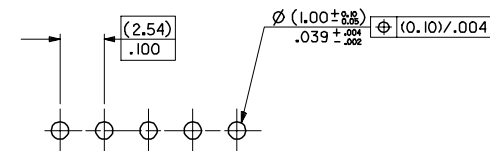
5. RECOMMENDED PCB THICKNESS 1.6mm



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/BNES		mm		MM/IN		5:1		METRIC		C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER	
2007/09/10		2007/09/10		4 PLACES ± ---		KS		DATE		DATE		MOLEX INCORPORATED	
CHKD: CHFKO		2007/09/10		3 PLACES ± ---		± .004		CHECKED BY		DATE		SDA-90136	
APPR: JWALLACE		2007/09/11		2 PLACES ± 0.10		± ---		APPROVED BY		DATE		MOLEX INCORPORATED	
REV		DESCRIPTION		1 PLACE ± ---		± ---		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
N		Z		ANGULAR ± 1/2°		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		1 OF 100			

	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	
ib_frame_A3_P_ME-T Rev. E 2006/04/15		9	8	7	6	5	4	3	2	1		

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