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Part Number: [0901308212](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 12 Circuits, Black, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

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

General

Product Family	PCB Headers
Series	90130
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black
Durability (mating cycles max)	200
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	Gold
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	2
Orientation	Right Angle
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)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

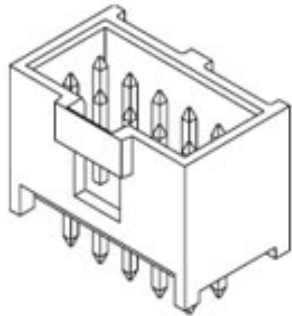


image - Reference only

Series

EU RoHS

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

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

[90130Series](#)

Mates With

[90143](#) C-Grid III™ Modular Crimp Housing.
[90160](#) C-Grid III™ Crimp Housing

Electrical

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

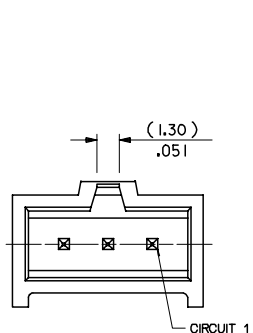
Material Info

Reference - Drawing Numbers

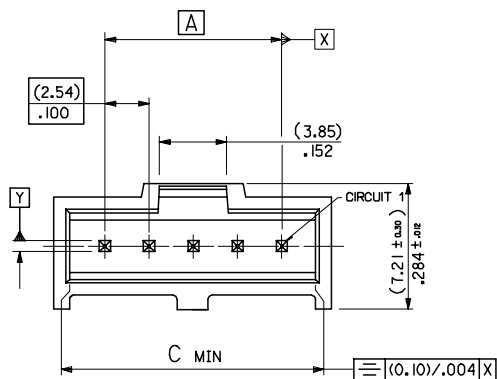
Packaging Specification	PK-90130-001, PK-91814-005
Sales Drawing	SDA-90130

This document was generated on 05/26/2010

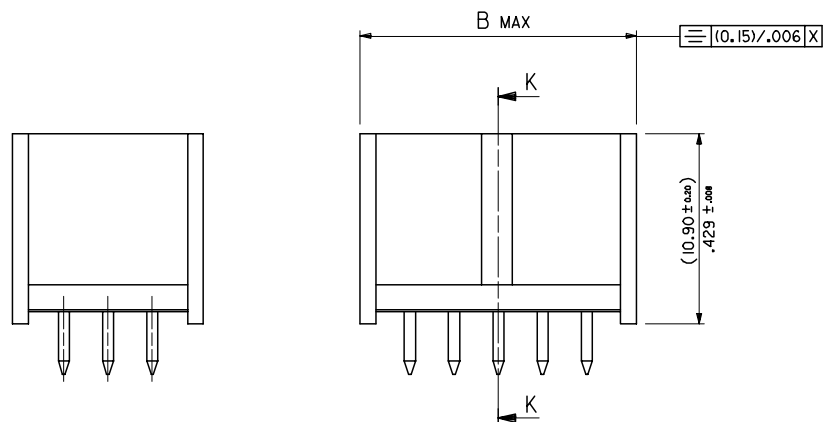
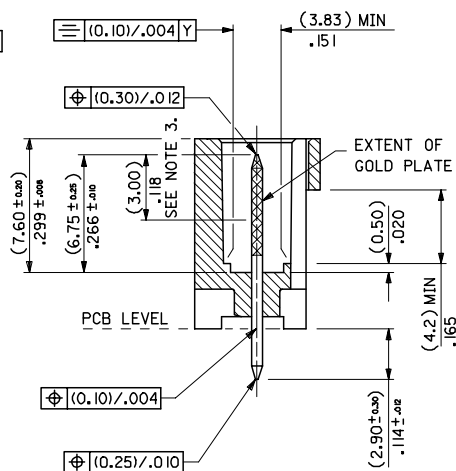
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1 TO 3 CIRCUITS

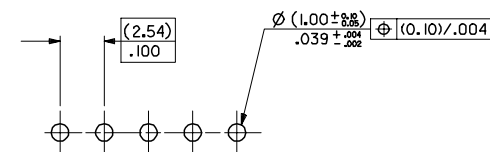


4 TO 32 CIRCUITS



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: DRW:NB/BN/MS CHKD: 2007/09/10 APPR: JWALLACE 2007/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><th></th><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .004</td></tr><tr><td>2 PLACES</td><td>± 0.10</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .004	2 PLACES	± 0.10	± ---	1 PLACE	± ---	± ---	ANGULAR ±1/2°			DIMENSION STYLE MM/IN	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																			
			4 PLACES	± ---	± ---																			
			3 PLACES	± ---	± .004																			
			2 PLACES	± 0.10	± ---																			
1 PLACE	± ---	± ---																						
ANGULAR ±1/2°																								
DRAWN BY KS		DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER																					
CHECKED BY		DATE	MOLEX MOLEX INCORPORATED																					
APPROVED BY		DATE	MATERIAL NO. DOCUMENT NO. SDA-90136																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A2	SEE CHART																					
		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												