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Part Number: [0901362106](#)
Status: **Active**
Overview: C-Grid III™
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 6 Circuits, 4µm (160µ") Tin/Lead (Sn) over Nickel (Ni)

Documents:

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

General

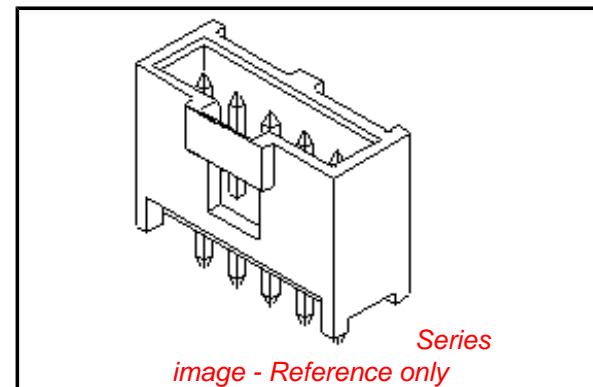
Product Family	PCB Headers
Series	90136
Application	Wire-to-Board
Overview	C-Grid III™
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
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	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)	0.062 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

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)

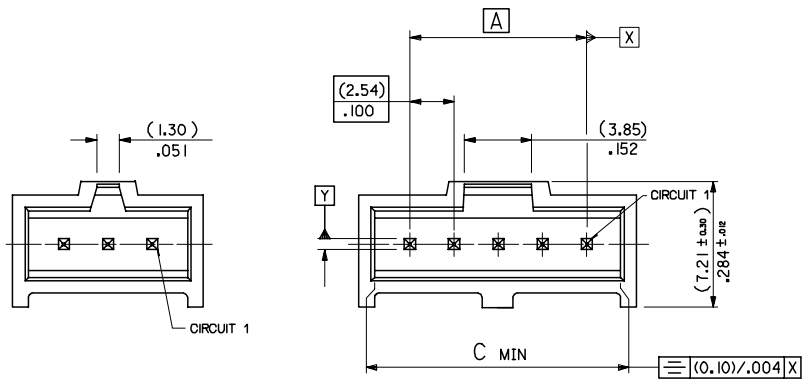
Material Info**Reference - Drawing Numbers**

Sales Drawing

SDA-90136

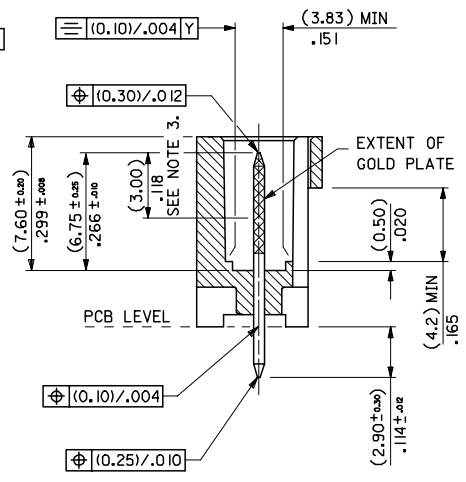
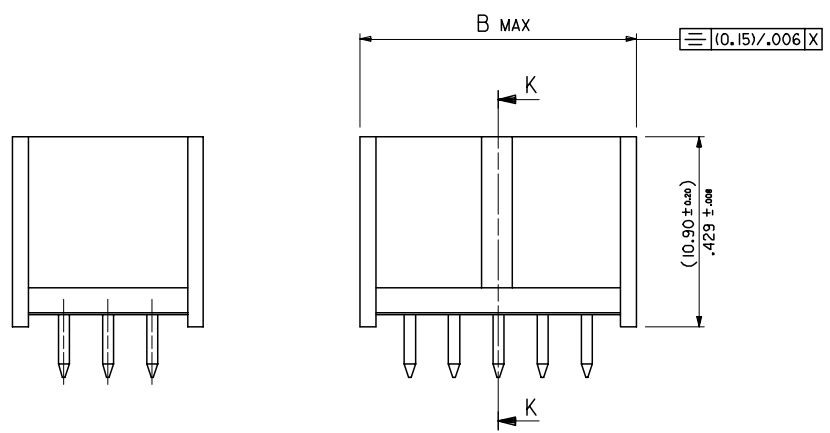
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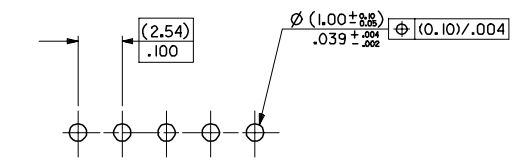
1 TO 3 CIRCUITS

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

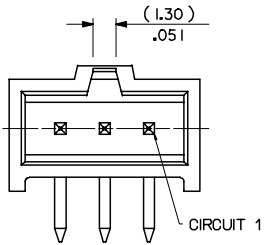


RECOMMENDED P.C. BOARD HOLE PATTERN

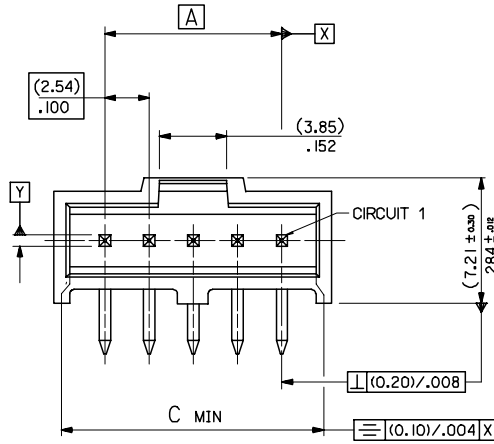
- NOTES
- MATERIAL:-
 - PIN:- (0.635) / .025 SQ.BRASS WIRE.
 - HOUSING:- 15% GLASS FILLED POLYESTER
 - UL 94 V-0 COLOUR BLACK
 - FOR PLATING VERSIONS SEE SHEET 2.
 - MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS
 - PRODUCT SPEC: PS-99020-0001
 - RECOMMENDED PCB THICKNESS 1.6mm

ADDED CIRCUIT 1 INDICATOR E.C. NO: E2008-0112 DRAWN BY: BRYANES CHKD: 2007/09/10 APPR: 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 ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°	mm INCH ± --- ± --- ± .004 ± --- ± --- ± --- ± --- ± ---	DRAWN BY KS	DATE 1987/10/30	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		MATERIAL NO. SDA-90136		DOCUMENT NO. MOLEX INCORPORATED		
SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						SHEET NO. 1 OF 100

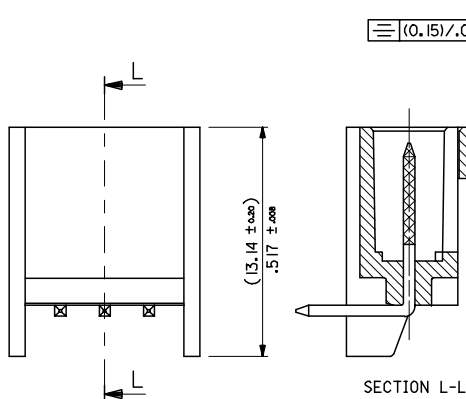
13 12 11 10 9 8 7 6 5 4 3 2 1



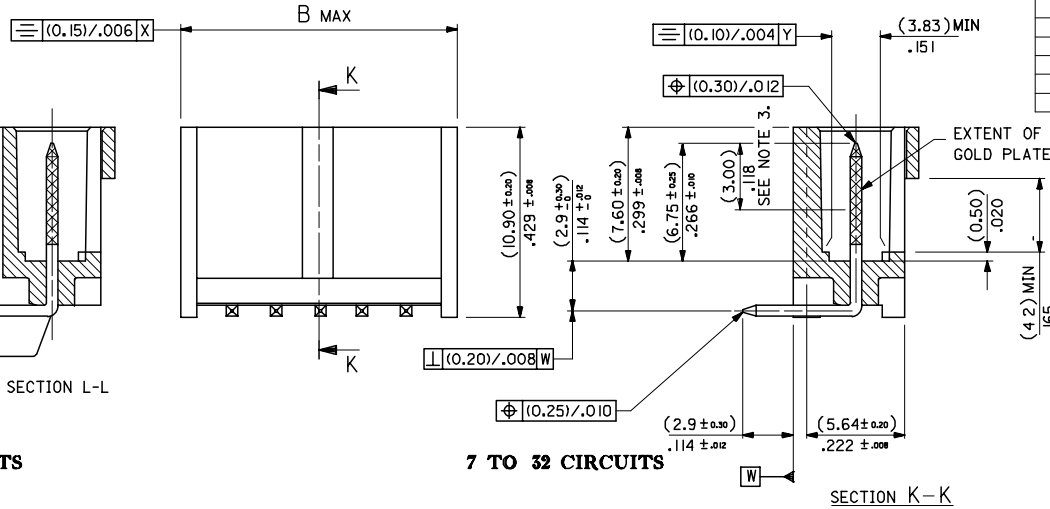
1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



1 TO 6 CIRCUITS

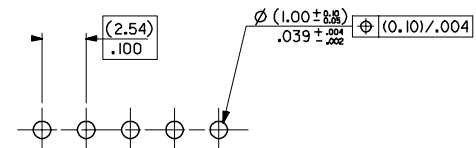


7 TO 32 CIRCUITS

SECTION K-K

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12	(27.94) / 1.100	(33.83) / 1.332	(32.00) / 1.260
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32	(78.74) / 3.100	(84.63) / 3.332	(82.80) / 3.260

RECOMMENDED P.C. BOARD HOLE PATTERN



NOTES

- 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 4.
 3. MEASUREMENT FOR MINIMUM PLATING THICKNESS
 4. PRODUCT SPEC: PS-99020-0001
 5. RECOMMENDED PCB THICKNESS 1.6mm

CIRCUIT 1 IDENTIFIED EC NO: E2008-012 DRAWN: BIRNES 2007/09/10 CHKD: 2007/09/10 APPR: 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
	DESCRIPTION	4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°	DRAWN BY KS	DATE 1987/09/29	TITLE C-GRID 111 SINGLE ROW RIGHT ANGLE SHROUDED HEADER	
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED	SHEET NO. 3 OF 100
			APPROVED BY	DATE	DOCUMENT NO. SDA-90136	
			MATERIAL NO.			
			SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

12 11 10 9 8 7 6 5 4 3 2 1

F

F

E

E

D

D

C

C

B

B

A

A

PART NUMBERS

NO. OF CKTS	PLATING TYPE A	PLATING TYPE E	PLATING TYPE F
1	90136-2101	90136-2201	90136-2301
2	▲ -2102	▲ -2202	▲ -2302
3	-2103	-2203	-2303
4	-2104	-2204	-2304
5	-2105	-2205	-2305
6	-2106	-2206	-2306
7	-2107	-2207	-2307
8	-2108	-2208	-2308
9	-2109	-2209	-2309
10	-2110	-2210	-2310
11	-2111	-2211	-2311
12	-2112	-2212	-2312
13	-2113	-2213	-2313
14	-2114	-2214	-2314
15	-2115	-2215	-2315
16	-2116	-2216	-2316
17	-2117	-2217	-2317
18	-2118	-2218	-2318
19	-2119	-2219	-2319
20	-2120	-2220	-2320
21	-2121	-2221	-2321
22	-2122	-2222	-2322
23	-2123	-2223	-2323
24	-2124	-2224	-2324
25	-2125	-2225	-2325
26	-2126	-2226	-2326
27	-2127	-2227	-2327
28	-2128	-2228	-2328
29	-2129	-2229	-2329
30	-2130	-2230	-2330
31	▼ -2131	▼ -2231	▼ -2331
32	90136-2132	90136-2232	90136-2332

NOTES
 1.FOR ASSY SEE SHEET 3
 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:- 2 - RIGHT ANGLE ASSY

UPDATED TABLE EC NO: E2007-1001 DRWN:DBYRNES CHKD: APPR:EOMAHONY 2007/06/07 2007/06/07 2007/06/07	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▼=0 ◻=0	4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±--- ±--- 1 PLACE ±--- ±--- ANGULAR ±---°	DRAWN BY DATE KS 1987/09/28 CHECKED BY DATE RD 1991/10/16 APPROVED BY DATE NW 1991/10/17	TITLE C-GRID SHRD HDR SR VT		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE CHART	MOLEX INCORPORATED SDA-90136		SHEET NO. 4 OF 8
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