

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901362303

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 3 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

90136

Wire-to-Board

cgrid_iii

C-Grid III™

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Color - Resin

First Mate / Last Break

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to PCB

Shrouded

Stackable

Temperature Range - Operating

Termination Interface: Style

No

3

3

Black

No

No

No

None

Yes

Brass

Gold

Tin

Polyester

1

Right Angle

0.114 In

2.90 mm

No

None

0.062 In

1.60 mm

Tray

0.100 In

2.54 mm

30.48

0.762

120

3

No

Fully

No

-55°C to +125°C

Through Hole

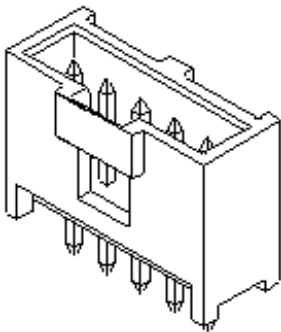
Electrical

Current - Maximum per Contact

Voltage - Maximum

3A

350V



Series
image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

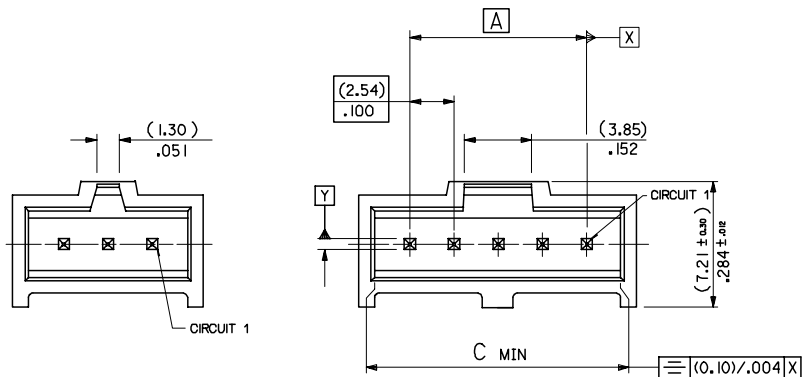
PK-90136-001

Sales Drawing

SDA-90136

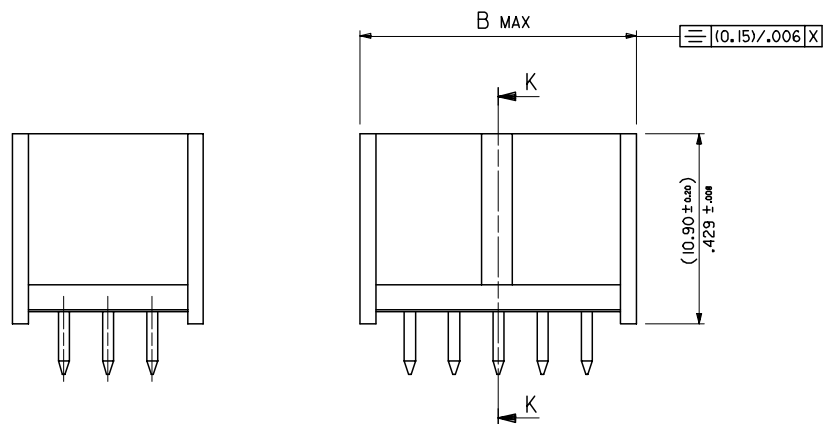
This document was generated on 05/26/2010

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1 TO 3 CIRCUITS

4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

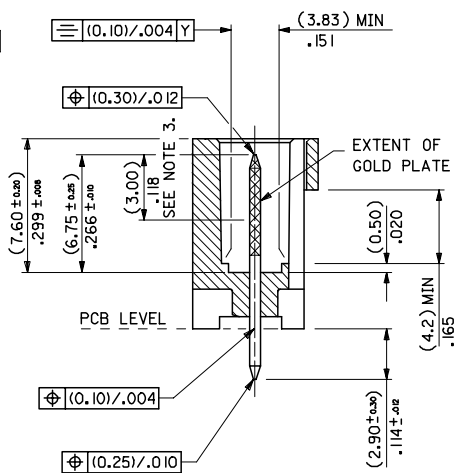
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

4. PRODUCT SPEC: PS-99020-0001

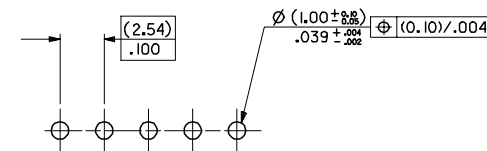
5. RECOMMENDED PCB THICKNESS 1.6mm



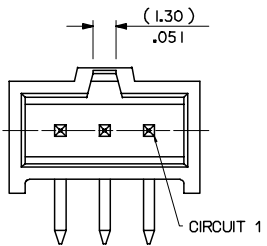
SECTION K-K

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

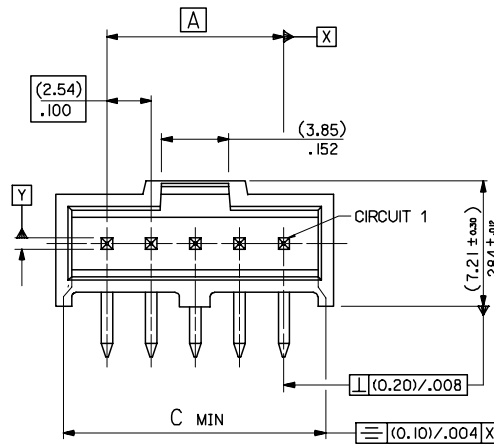
RECOMMENDED P.C. BOARD HOLE PATTERN



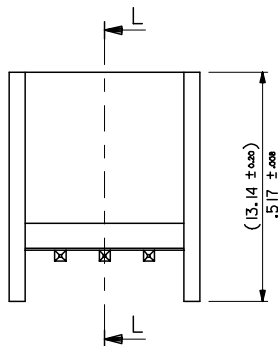
ADDED CIRCUIT 1 INDICATOR EC NO: E2008-0712 DRAWN BY: RNS CHKD: CHKD APPR: WALLACE		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY	DATE	TITLE C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER		
				4 PLACES	±---	±---	KS	1987/10/30			
				3 PLACES	±---	±.004	CHECKED BY	DATE			
Z		REV		2 PLACES	±0.10	±---	APPROVED BY	DATE	molex MOLEX INCORPORATED	SHEET NO. 1 OF 100	
				1 PLACE	±---	±---					
				ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A		SDA-90136			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											



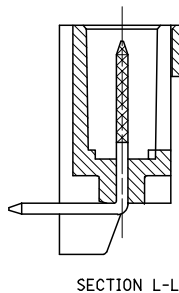
1 TO 3 CIRCUITS



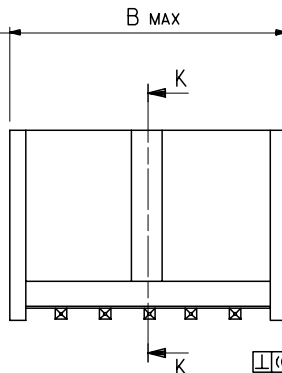
4 TO 32 CIRCUITS



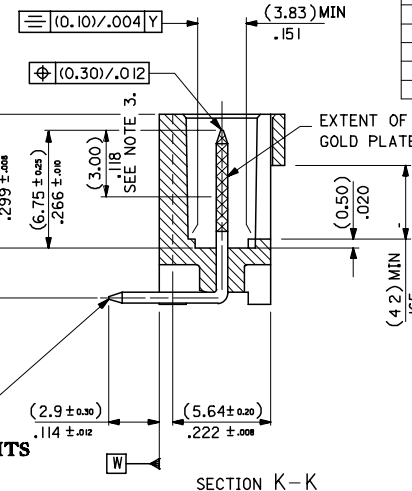
1 TO 6 CIRCUITS



SECTION L-L



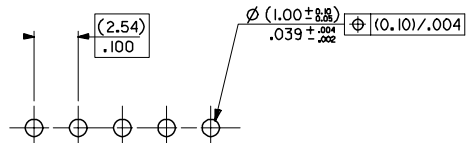
7 TO 32 CIRCUITS



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
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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
 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: E2008-0112 DRAWN BY: JAMES CHKD: 2007/09/10 APPR: WALLACE 2007/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			MM/IN		5:1	METRIC		
					TITLE		C-GRID 111 SINGLE ROW RIGHT ANGLE SHROUDED HEADER	
					DRAWN BY DATE		MOLEX MOLEX INCORPORATED	
					CHECKED BY DATE		DOCUMENT NO. SDA-90136	
					APPROVED BY DATE		SHEET NO. 3 OF 100	
					MATERIAL NO.			
					SIZE			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

	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

I.FOR ASSY SEE SHEET 3

2.FOR PLATING DETAILS SEE SDES 99000-0003

90136 - X X X X

— INDICATES No. OF CIRCUITS

— PLATING

I - TYPE A

2 - TYPE E

3 - TYPE F

— STYLE:- 2 - RIGHT ANGLE ASSY

UPDATED TABLE EC NO: E2007-1001 DRAWN BY: BYRNES CHKD: APPR: EOMAHONY 2007/06/07 2007/06/07 2007/06/07		DESCRIPTION	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE C-GRID SHRD HDR SR VT			
				4 PLACES ± ---	± ---	KS	1987/09/28				
				3 PLACES ± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
				2 PLACES ± ---	± ---	RD	1991/10/16				
1 PLACE ± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED							
ANGULAR ± ---°		NW	1991/10/17								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.				SHEET NO.		
			SEE CHART		SDA-90136				4 OF 8		
SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								