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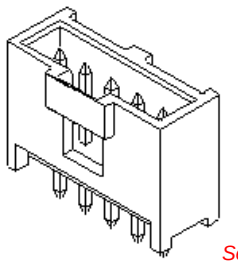
Part Number: 0901362310
Status: Active
Overview: cgrid_iii
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, Shrouded, 10 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating



Series image - Reference only

Documents:
3D Model
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)	10
Circuits (maximum)	10
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	Gold
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)	30.48
Plating min: Mating (µm)	0.762
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
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

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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

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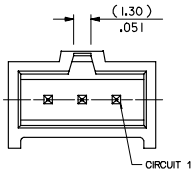
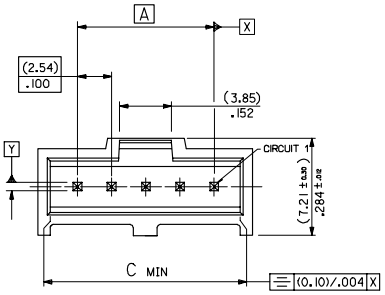
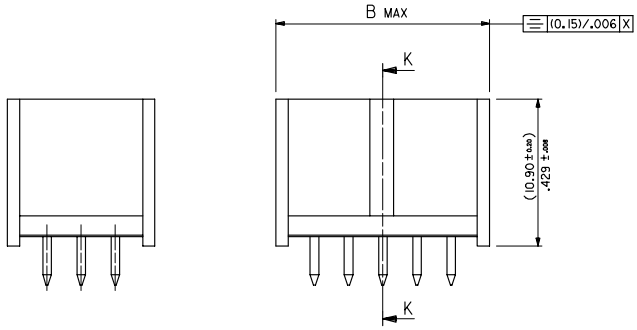


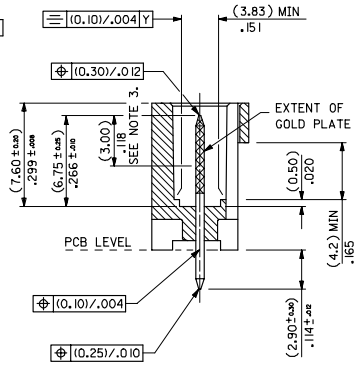
1 TO 3 CIRCUITS



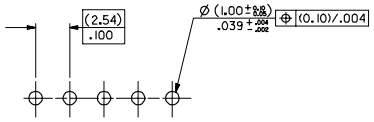
4 TO 32 CIRCUITS

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	(2.54)/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





SECTION K—K



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

REV	DESCRIPTION	DRAWN	CHKD	APPR
Z	ADDED CIRCUIT 1 INDICATOR EC NO: E2008-0112	2007/09/10	2007/09/10	2007/09/11

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .004
2 PLACES	± 0.10	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KS DATE: 1987/10/30
CHECKED BY: DATE:
APPROVED BY: DATE:

TITLE: C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90136
SHEET NO.: 1 OF 2

SIZE: A2

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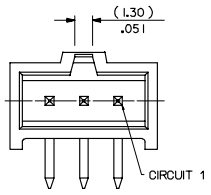
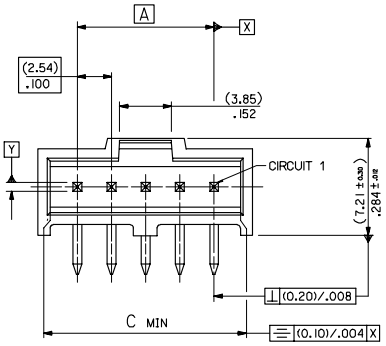


1 TO 3 CIRCUITS



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No. OF CKTS	DIM A	DIM B	DIM C
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6	(12.70)/ .500	(18.59)/ .732	(16.76)/ .660
7	(15.24)/ .600	(21.13)/ .832	(19.30)/ .760
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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
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27	(66.04)/2.600	(71.93)/2.832	(70.10)/2.760
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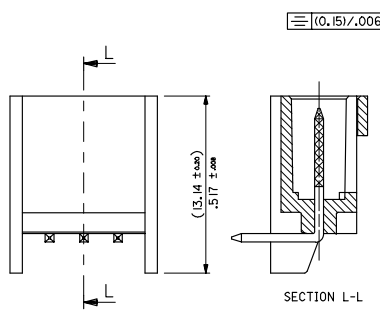
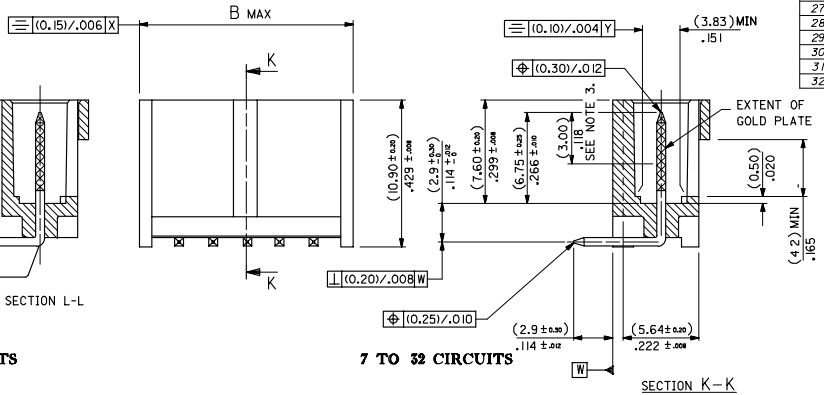
31	(76.20)/3.000	(82.09)/3.232	(80.26)/3.160
32	(78.74)/3.100	(84.63)/3.332	(82.80)/3.260

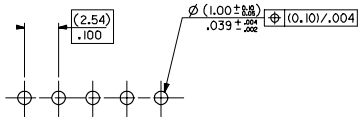


1 TO 6 CIRCUITS



7 TO 32 CIRCUITS

SECTION K-K



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
DRWN: DBYRNES 2007/09/10
CHKD: 2007/09/10
APPR: JWALLACE 2007/09/11
DESCRIPTION
REV: N

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .004
2 PLACES	± 0.10	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KS DATE: 1987/09/29
CHECKED BY: DATE:
APPROVED BY: DATE:

TITLE: C-GRID III SINGLE ROW RIGHT ANGLE SHROUDED HEADER

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90136
SHEET NO.: 3 OF 180

SIZE: A2

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NO. OF CKTS	PART NUMBERS 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 2007/06/07
EC NO: E2007-1001 2007/06/07
DRWN:DBYRNES 2007/06/07
CHKD:
APPR:EOMAHONY
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KS DATE: 1987/09/28
CHECKED BY: RD DATE: 1991/10/16
APPROVED BY: NW DATE: 1991/10/17

TITLE: C-GRID SHRD HDR SR VT

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90136
SHEET NO.: 4 OF 8

SIZE: A3

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