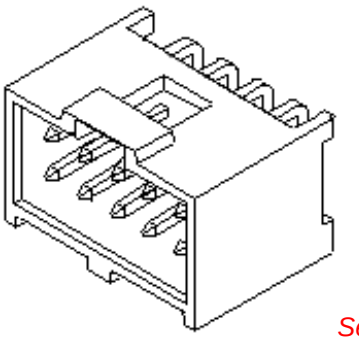
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0918143110
Status: Active
Overview: cgrid_iii
Description: 2.54mm (.100") Pitch C-Grid III™ Dual Row Right Angle Shrouded Header, 10 Circuits, Tin (Sn) over Nickel (Ni)



Series image - Reference only

Documents:

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

General

Product Family	PCB Headers
Series	91814
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™

Physical

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
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	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.083 In
PC Tail Length (mm)	2.10 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	Yes
Polarized to PCB	No
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
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
91814Series

Mates With
90142 C-Grid III™ Crimp Housing. 90119 C-Grid III™ Crimp Terminal

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

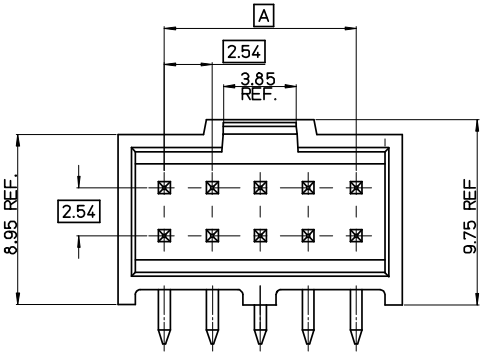
Reference - Drawing Numbers

Packaging Specification	PK-91814-005
Product Specification	PS-99020-0001
Sales Drawing	SD-91814-001

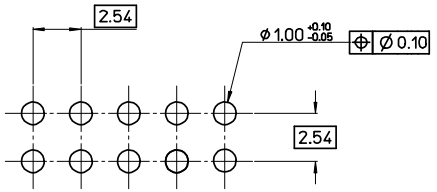
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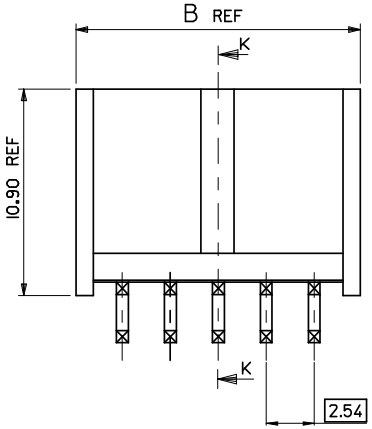
HSG CKT SIZE	PART NUMBER	DIM A	DIM B
6	91814-3106	5.08	9.96
8	91814-3108	7.62	12.50
10	91814-3110	10.16	15.04
12	91814-3112	12.70	17.58
14	91814-3114	15.24	20.12
16	91814-3116	17.78	22.66
18	91814-3118	20.32	25.20
20	91814-3120	22.86	27.74
22	91814-3122	25.40	30.28
24	91814-3124	27.94	32.82
26	91814-3126	30.48	35.36
28	91814-3128	33.02	37.90
30	91814-3130	35.56	40.44
32	91814-3132	38.10	42.98
34	91814-3134	40.64	45.52
36	91814-3136	43.18	48.06
38	91814-3138	45.72	50.60
40	91814-3140	48.26	53.14
42	91814-3142	50.80	55.68
44	91814-3144	53.34	58.22
46	91814-3146	55.88	60.76
48	91814-3148	58.42	63.30
50	91814-3150	60.96	65.84

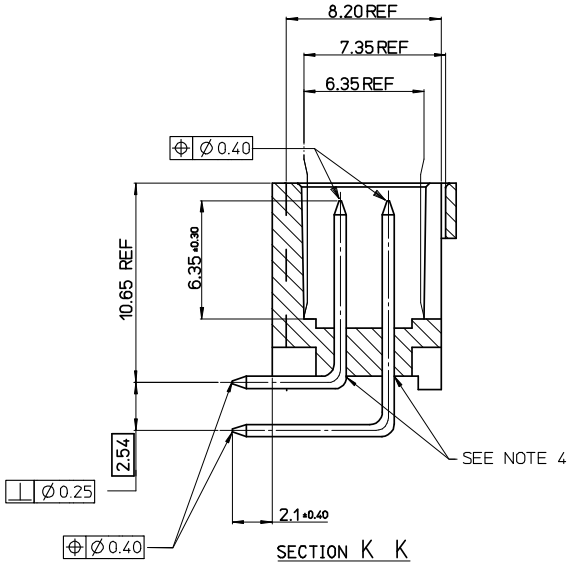


VERSION FULLY LOADED



RECOMENDEC P.C. BOARD
HOLE PATTERN





SECTION K K

NOTES:

1. MATERIAL:
   PIN: 0.647 REF SQ. BRASS WIRE.
   HOUSING: (PCT) 30% GLASS FILLED POLYESTER UL 94 V-0
   COLOUR: BLACK
2. PLATING:
   TIN 3.0µm MIN. OVER NICKEL.
3. PIN RETENTION FORCE 20N MIN. IN BOTH DIRECTIONS.
4. HOUSING FLASH PERMISSIBLE IN THIS AREA.
5. PRODUCT SPECIFICATION. PS-99020-0001
6. PCB THICKNESS 1.6MM

MODIFIED PIN DIM 2008/04/10
ADDED REF DIMS 2008/04/11
EC NO: E2008-0144 2008/04/11
DRWN:DBYRNES
CHKD:JDWALLACE
APPR:JWALLACE
DESCRIPTION
REV D

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± .5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: DWASZKIEWICZ DATE: 2006/06/15
CHECKED BY: J DENNEHY DATE: 2006/09/29
APPROVED BY: J DENNEHY DATE: 2006/09/29
MATERIAL NO.: SEE CHART

TITLE: C-GRID III DUAL ROW R/A PIN SHROUDED HEADER ROHS COMPATIBLE

MOLEX INCORPORATED

DOCUMENT NO.: SD-91814-001
SHEET NO.: 1 OF 1
SIZE: A2

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