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Part Number: [0918143108](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Dual Row Right Angle Shrouded Header, 8 Circuits, Tin (Sn) over Nickel (Ni)

Documents:

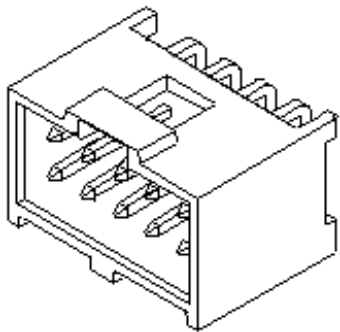
[3D Model](#) [Product Specification PS-99020-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [91814](#)
Application Wire-to-Board
Overview [cgrid_iii](#)
Product Name C-Grid III™

Physical

Breakaway No
Circuits (Loaded) 8
Circuits (maximum) 8
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



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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

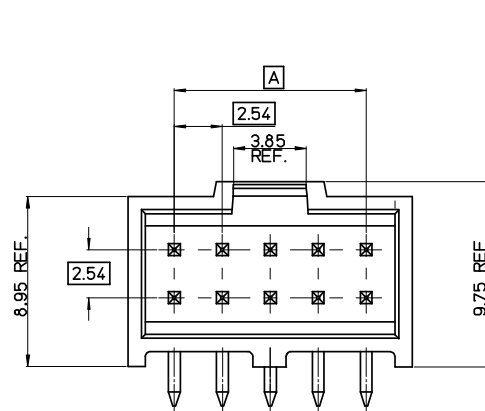
Material Info

Reference - Drawing Numbers

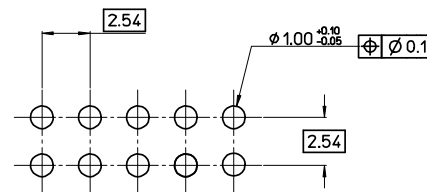
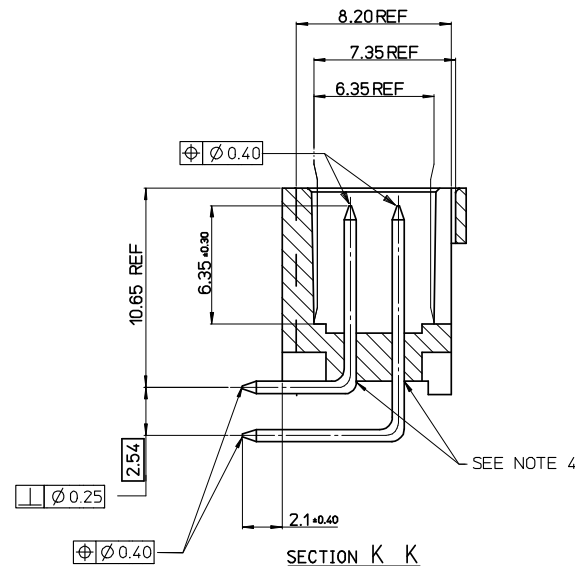
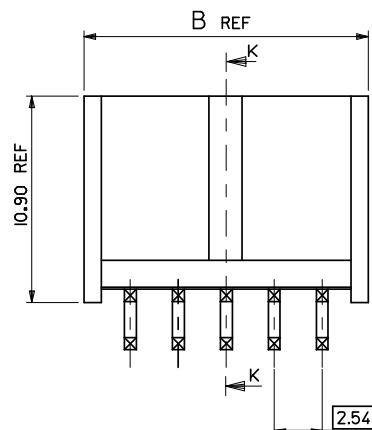
Packaging Specification	PK-91814-005
Product Specification	PS-99020-0001
Sales Drawing	SD-91814-001

This document was generated on 05/26/2010

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VERSION FULLY LOADED



RECOMENDEC P.C. BOARD
HOLE PATTERN

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

NOTES:

- MATERIAL:
PIN: 0.647 REF SQ. BRASS WIRE.
HOUSING: (PCT) 30% GLASS FILLED POLYESTER UL 94 V-0
COLOUR: BLACK
- PLATING:
TIN 3.04µm MIN. OVER NICKEL.
- PIN RETENTION FORCE 20N MIN. IN BOTH DIRECTIONS.
- HOUSING FLASH PERMISSIBLE IN THIS AREA.
- PRODUCT SPECIFICATION: PS-99020-0001
- PCB THICKNESS 1.6MM

MODIFIED PIN DIM ADDED REF DIMS EC NO: E2008-0144 DRWN:BYRNES 2008/04/10 CHKD: DWALLACE 2008/04/11 APPR: JWALLACE 2008/04/11	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY	DATE	TITLE C-GRID III DUAL ROW R/A PIN SHROUDED HEADER ROHS COMPATIBLE		
			4 PLACES	± ---	± ---	DWASZKIEWICZ	2006/06/15			
			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED		
			2 PLACES	± 0.15	± ---	J DENNEHY	2006/09/29			
			1 PLACE	± 0.25	± ---	APPROVED BY	DATE			
			ANGULAR ± .5 °			J DENNEHY	2006/09/29	MATERIAL NO.	DOCUMENT NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SD-91814-001		1 OF 1			
			SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					