

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0918141210](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Dual Row Vertical Shrouded Header, 10 Circuits, Tin (Sn) over Nickel (Ni)

Documents:

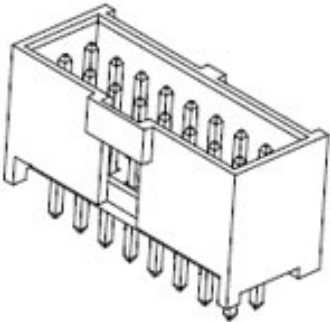
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

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
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 Vertical
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
Robotic Placement None
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 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

Material Info

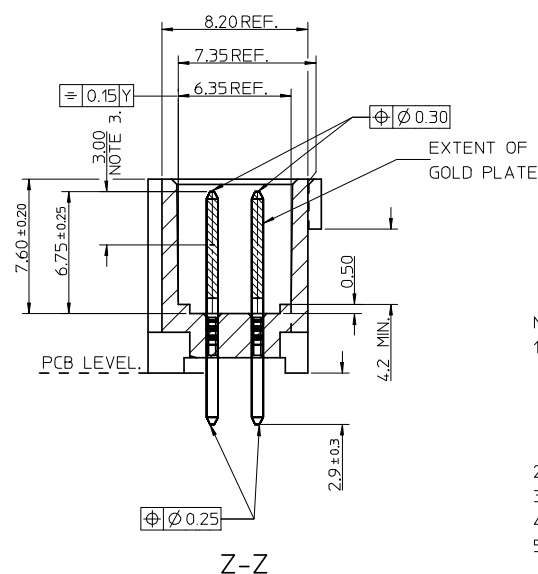
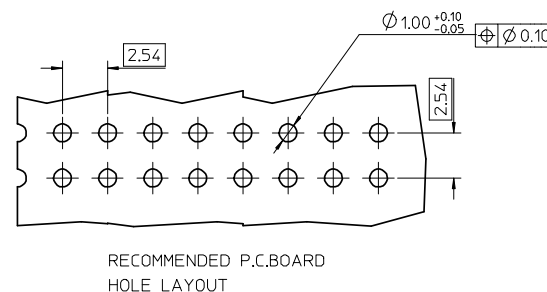
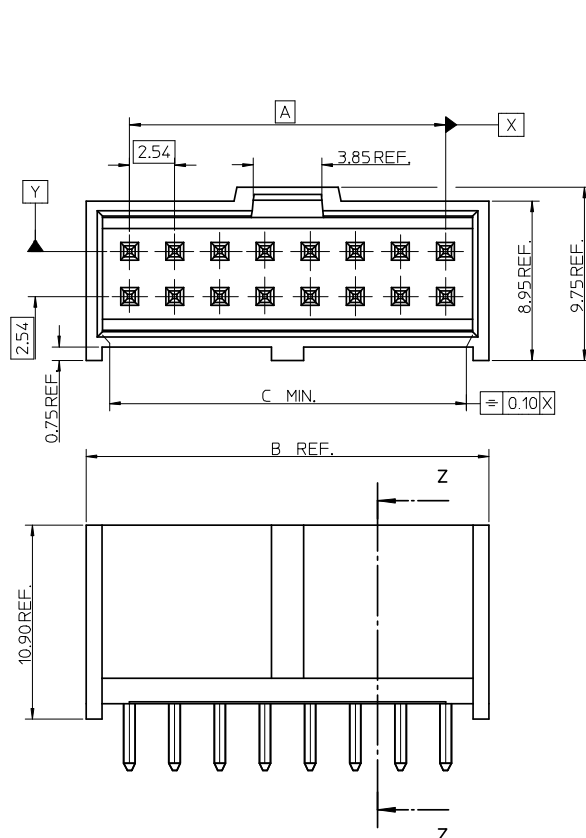
Reference - Drawing Numbers

Packaging Specification	PK-91814-005
Sales Drawing	SD-91814-002

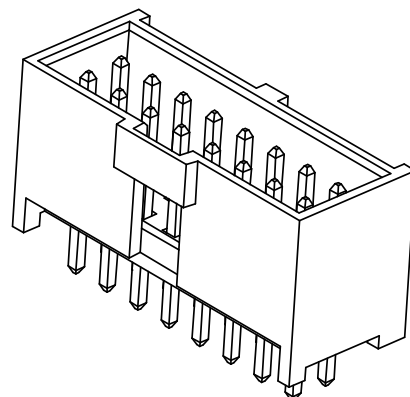
This document was generated on 05/26/2010

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CKT SIZE	DIM A	DIM B	DIM C
6	5.08	9.96	8.12
8	7.62	12.50	10.66
10	10.16	15.04	13.20
12	12.70	17.58	15.74
14	15.24	20.12	18.28
16	17.78	22.66	20.82
18	20.32	25.20	23.36
20	22.86	27.74	25.90
22	25.40	30.28	28.44
24	27.94	32.82	30.98
26	30.48	35.36	33.52
28	33.02	37.90	36.06
30	35.56	40.44	38.60
32	38.10	42.98	41.14
34	40.64	45.52	43.68
36	43.18	48.06	46.22
38	45.72	50.60	48.76
40	48.26	53.14	51.30
42	50.80	55.68	53.84
44	53.34	58.22	56.38
46	55.88	60.76	58.92
48	58.42	63.30	61.46
50	60.96	65.84	64.00



- NOTES:
- 1- MATERIAL:
PIN: 0.647 REF SQ. BRASS WIRE.
HOUSING: GLASS FILLED POLYESTER (PCT) UL 94-V0
COLOUR: BLACK
PLATING: SEE SHEET 2
 - 2- PIN RETENTION FORCE 20N IN BOTH DIRECTIONS.
 - 3- MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
 - 4- RECOMMENDED PCB THICKNESS 1.6mm
 - 5- PRODUCT SPECIFICATION: PS-99020-0001



ORIGINAL EC NO: E2008-0145 DRWN: DBYRNES 2008/04/10 CHKD: 2008/04/11 APPR: WALLACE 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				
			4 PLACES	± .005	± .0008	DBYRNES	2007/07/26	C-GRID III DUAL ROW T/HOLE SHROUDED HEADER ROHS COMPATIBLE			
			3 PLACES	± .005	± .0008	CHECKED BY	DATE				
			2 PLACES	± 0.15	± .005	EOMAHONY	2007/07/27	MOLEX INCORPORATED			
			1 PLACE	± 0.25	± .010	APPROVED BY	DATE				
			ANGULAR ± .5 °		EOMAHONY		2007/07/27	MATERIAL NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHARTS		DOCUMENT NO.			SHEET NO.	
					SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			1 OF 2	
					SD-91814-002						

NO OF CKTS	PART NUMBER		
	PLATING TYPE A	PLATING TYPE B	PLATING TYPE C
6	91814 -1106	91814 -1206	91814 -1306
8	▲ -1108	▲ -1208	▲ -1308
10	▲ -1110	▲ -1210	▲ -1310
12	▲ -1112	▲ -1212	▲ -1312
14	▲ -1114	▲ -1214	▲ -1314
16	▲ -1116	▲ -1216	▲ -1316
18	▲ -1118	▲ -1218	▲ -1318
20	▲ -1120	▲ -1220	▲ -1320
22	▲ -1122	▲ -1222	▲ -1322
24	▲ -1124	▲ -1224	▲ -1324
26	▲ -1126	▲ -1226	▲ -1326
28	▲ -1128	▲ -1228	▲ -1328
30	▲ -1130	▲ -1230	▲ -1330
32	▲ -1132	▲ -1232	▲ -1332
34	▲ -1134	▲ -1234	▲ -1334
36	▲ -1136	▲ -1236	▲ -1336
38	▲ -1138	▲ -1238	▲ -1338
40	▲ -1140	▲ -1240	▲ -1340
42	▲ -1142	▲ -1242	▲ -1342
44	▲ -1144	▲ -1244	▲ -1344
46	▼ -1146	▼ -1246	▼ -1346
48	▼ -1148	▼ -1248	▼ -1348
50	91814 -1150	91814 -1250	91814 -1350

NOTES:
1- FOR ASSY SEE SHEET 1.
2- FOR PLATING DETAILS SEE SDES-99000-0003

ORIGINAL EC NO: E2008-0145 DRAWN: DBYRNES 2008/04/10 CHKD: 2008/04/11 APPR: J WALLACE 2008/04/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY DBYRNES	DATE 2007/07/26	
		4 PLACES	± --- ± ---	4 PLACES	± --- ± ---	CHECKED BY EOMAHONY	DATE 2007/07/27	TITLE C-GRID III DUAL ROW T/HOLE SHROUDED HEADER ROHS COMPATIBLE
		2 PLACES	± 0.15 ± ---	2 PLACES	± 0.15 ± ---	APPROVED BY EOMAHONY	DATE 2007/07/27	
		1 PLACE	± 0.25 ± ---	1 PLACE	± 0.25 ± ---	MATERIAL NO.	DOCUMENT NO.	
A	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-91814-002		SHEET NO. 2 OF 2
				SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		