

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901301108

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 8 Circuits, Black, 3µm (118µ") Tin (Sn) over Nickel (Ni)

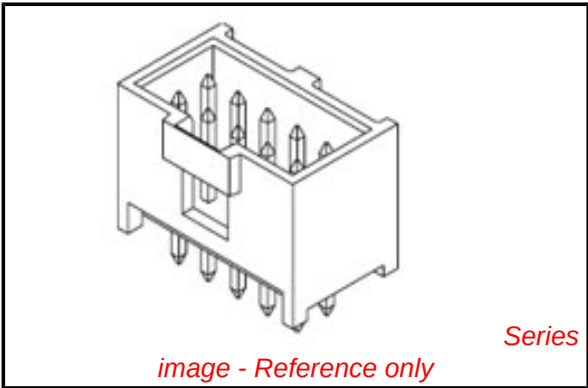
Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	90130
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	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.114 In
PC Tail Length (mm)	2.90 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 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)	118
Plating min: Mating (µm)	3
Plating min: Termination (µin)	118
Plating min: Termination (µm)	3
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Closed Ends
Stackable	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

90130Series

Mates With

90142 C-Grid III™ Crimp Housing

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

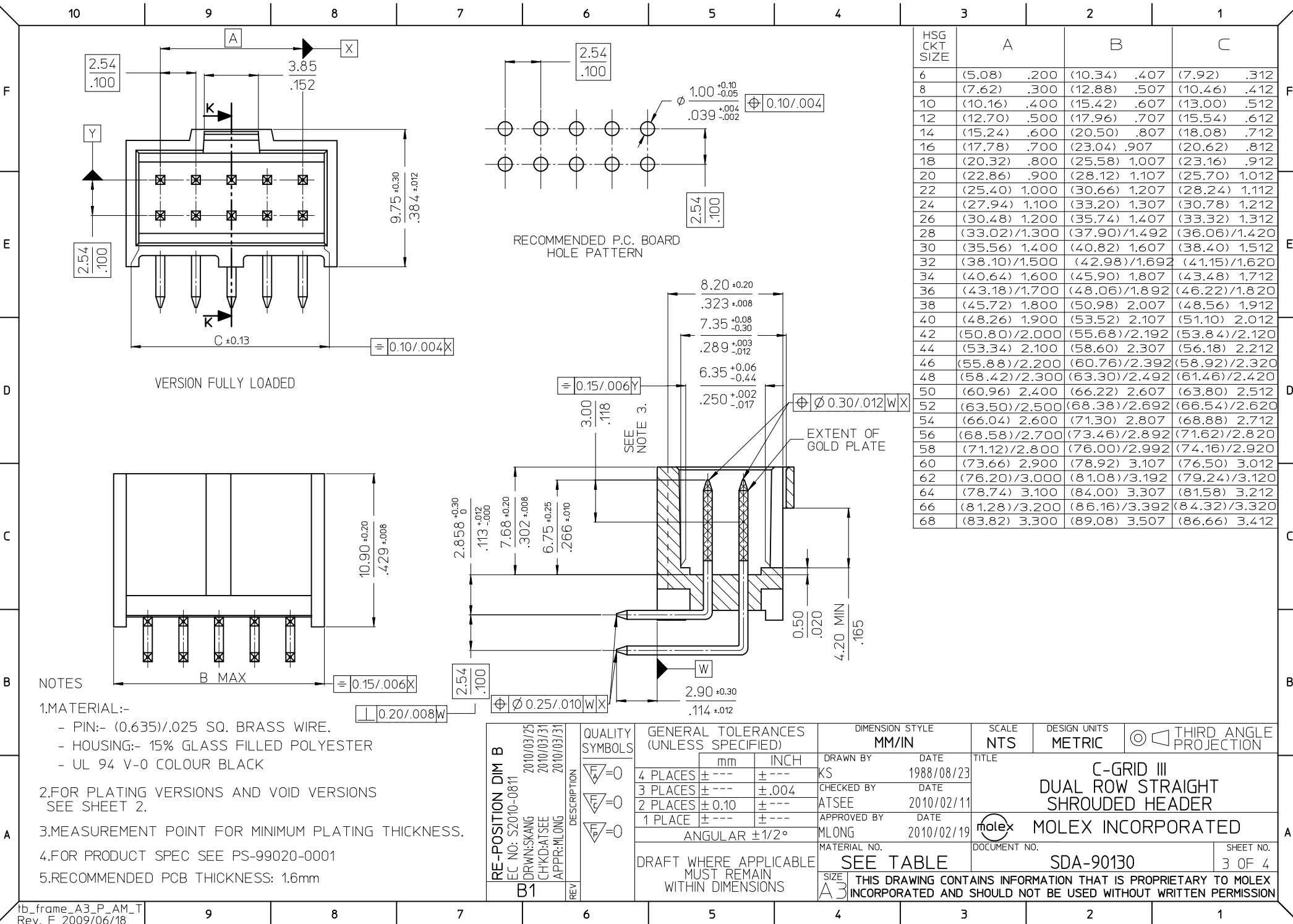
Reference - Drawing Numbers

Packaging Specification	PK-90130-001, PK-91814-005
Sales Drawing	SDA-90130

This document was generated on 05/25/2010

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	10	9	8	7	6	5	4	3	2	1		
	NO OF CKTS	HSG CKT SIZE	PART NUMBER			NOTES: 1. FOR ASSY SEE SHEET 1. 2. FOR PLATING DETAILS SEE SDES-99000-0003						
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F							
F	6	6	90130-X106	90130-X206	90130-X306	90130 - * * * * <div>INDICATES CIRCUIT HOUSING SIZE (EXCEPTION ON VOIDED OPTION - SEE TABLE FOR HOUSING CIRCUIT SIZE)</div> <div>PLATING 1 - TYPE A 2 - TYPE E 3 - TYPE F 4 - TYPE G</div> <div>STYLE# - STRAIGHT ASSY - 1. VERSION FULLY LOADED BLACK 8. VERSION WITH VOIDS</div>						
	8	8	X108	X208	X308							
	10	10	X110	X210	X310							
	12	12	X112	X212	X312							
	14	14	X114	X214	X314							
	16	16	X116	X216	X316							
	18	18	X118	X218	X318							
	20	20	X120	X220	X320							
E	22	22	X122	X222	X322							
	24	24	X124	X224	X324							
	26	26	X126	X226	X326							
	28	28	X128	X228	X328							
	30	30	X130	X230	X330							
	32	32	X132	X232	X332							
	34	34	X134	X234	X334							
	36	36	X136	X236	X336							
D	38	38	X138	X238	X338							
	40	40	X140	X240	X340							
	42	42	X142	X242	X342							
	44	44	X144	X244	X344							
	46	46	X146	X246	X346							
	48	48	X148	X248	X348							
	50	50	X150	X250	X350							
	52	52	X152	X252	X352							
C	54	54	X154	X254	X354							
	56	56	X156	X256	X356							
	58	58	X158	X258	X358							
	60	60	X160	X260	X360							
	62	62	X162	X262	X362							
	64	64	X164	X264	X364							
	66	66	X166	X266	X366							
	68	68	90130-X168	90130-X268	90130-X368							
B	VERSION FULLY LOADED										B	
A	<div><div><div>RE-POSITION DIM B</div><div>EC NO: S2010-0811</div><div>DRWN:SKANG</div><div>CHKD:ATSEE</div><div>APPR:MLONG</div><div>REV</div><div>B1</div></div><div><div>2010/03/25</div><div>2010/03/31</div><div>2010/03/31</div><div>DESCRIPTION</div></div><div><div>QUALITY SYMBOLS</div><div>F=0</div><div>F=0</div><div>F=0</div></div><div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div>4 PLACES ± --- ± ---</div><div>3 PLACES ± --- ± .004</div><div>2 PLACES ± 0.10 ± ---</div><div>1 PLACE ± --- ± ---</div><div>ANGULAR ± 1/2°</div><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div></div><div><div>DIMENSION STYLE</div><div>MM/IN</div><div>DRAWN BY</div><div>DATE</div><div>CHECKED BY</div><div>DATE</div><div>APPROVED BY</div><div>DATE</div><div>MATERIAL NO.</div><div>SIZE</div></div><div><div>SCALE</div><div>NTS</div><div>TITLE</div><div>C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER</div><div><div>MOLEX</div>MOLEX INCORPORATED</div><div>DOCUMENT NO.</div><div>SDA-90130</div><div>SHEET NO.</div><div>2 OF 4</div></div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div>										A	
	tb_frame_A3_P_AM_T Rev. F 2009/06/18											
		9	8	7	6	5	4	3	2	1		



HSG CKT SIZE	A		B		C	
6	(5.08)	.200	(10.34)	.407	(7.92)	.312
8	(7.62)	.300	(12.88)	.507	(10.46)	.412
10	(10.16)	.400	(15.42)	.607	(13.00)	.512
12	(12.70)	.500	(17.96)	.707	(15.54)	.612
14	(15.24)	.600	(20.50)	.807	(18.08)	.712
16	(17.78)	.700	(23.04)	.907	(20.62)	.812
18	(20.32)	.800	(25.58)	1.007	(23.16)	.912
20	(22.86)	.900	(28.12)	1.107	(25.70)	1.012
22	(25.40)	1.000	(30.66)	1.207	(28.24)	1.112
24	(27.94)	1.100	(33.20)	1.307	(30.78)	1.212
26	(30.48)	1.200	(35.74)	1.407	(33.32)	1.312
28	(33.02)/1.300		(37.90)/1.492		(36.06)/1.420	
30	(35.56)	1.400	(40.82)	1.607	(38.40)	1.512
32	(38.10)/1.500		(42.98)/1.692		(41.15)/1.620	
34	(40.64)	1.600	(45.90)	1.807	(43.48)	1.712
36	(43.18)/1.700		(48.06)/1.892		(46.22)/1.820	
38	(45.72)	1.800	(50.98)	2.007	(48.56)	1.912
40	(48.26)	1.900	(53.52)	2.107	(51.10)	2.012
42	(50.80)/2.000		(55.68)/2.192		(53.84)/2.120	
44	(53.34)	2.100	(58.60)	2.307	(56.18)	2.212
46	(55.88)/2.200		(60.76)/2.392		(58.92)/2.320	
48	(58.42)/2.300		(63.30)/2.492		(61.46)/2.420	
50	(60.96)	2.400	(66.22)	2.607	(63.80)	2.512
52	(63.50)/2.500		(68.38)/2.692		(66.54)/2.620	
54	(66.04)	2.600	(71.30)	2.807	(68.88)	2.712
56	(68.58)/2.700		(73.46)/2.892		(71.62)/2.820	
58	(71.12)/2.800		(76.00)/2.992		(74.16)/2.920	
60	(73.66)	2.900	(78.92)	3.107	(76.50)	3.012
62	(76.20)/3.000		(81.08)/3.192		(79.24)/3.120	
64	(78.74)	3.100	(84.00)	3.307	(81.58)	3.212
66	(81.28)/3.200		(86.16)/3.392		(84.32)/3.320	
68	(83.82)	3.300	(89.08)	3.507	(86.66)	3.412

- 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 AND VOID VERSIONS SEE SHEET 2.
- 3.MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
- 4.FOR PRODUCT SPEC SEE PS-99020-0001
- 5.RECOMMENDED PCB THICKNESS: 1.6mm

RE-POSITION DIM B

EC NO: S2010-0811

DRWN:KANG

CHKD:ATSEE

APPR:MLONG

B1

QUALITY SYMBOLS

$F_A=0$

$F_B=0$

$F_P=0$

DESCRIPTION

REV

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

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SIZE

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SCALE

NTS

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

C-GRID III

DUAL ROW STRAIGHT

SHROUDED HEADER

MOLEX INCORPORATED

SDA-90130

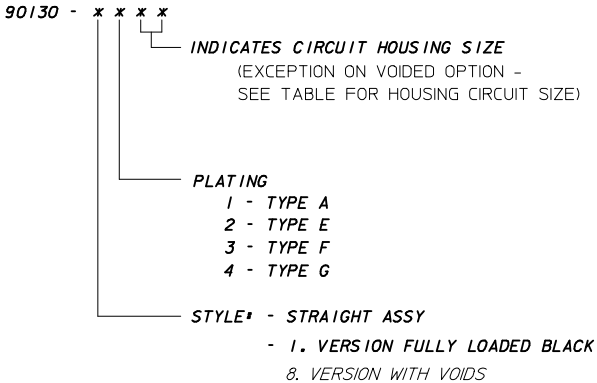
3 OF 4

NO OF CKTS	HSG CKT SIZE	PART NUMBER		
		PLATING TYPE A	PLATING TYPE E	PLATING TYPE F
6	6	90130-X106	90130-X206	90130-X306
8	8	X108	X208	X308
10	10	X110	X210	X310
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62	62	X162	X262	X362
64	64	X164	X264	X364
66	66	X166	X266	X366
68	68	90130-X168	90130-X268	90130-X368

NO OF CKTS	HSG CKT SIZE	VOIDED PART NUMBER	VOID POSITION	PLATING TYPE
11	12	90130-8212	12	E
9	10	90130-8309	2	F
9	10	90130-8311	1	F
11	12	90130-8213	2	E
11	12	90130-8313	2	F

VOIDED OPTION

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



VERSION FULLY LOADED

Changed 8212 to void 2
EC NO: E2010-0123
DRWN:BMAGUIRE 2009/10/15
CHKD: 2009/10/15
APPR:BMAGUIRE 2009/10/15

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

DRAWN BY DATE
KS 1987/09/10

CHECKED BY DATE

APPROVED BY DATE

MATERIAL NO.

SIZE
A2

SCALE
1:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
C-GRID III DUAL ROW
STRAIGHT SHROUDED
HEADER

MOLEX

MOLEX INCORPORATED

MATERIAL NO. SDA-90130
DOCUMENT NO. SHEET NO.
2 OF 4

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Rev. E 2006/04/15

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