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Part Number: [0901301316](#)
Status: **Active**
Overview: [cgrid_iii](#)
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 16 Circuits, Black, 0.76µm (30µ") Gold (Au) Selective Plating

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

General	
Product Family	PCB Headers
Series	90130
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™
Physical	
Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
Color - Resin	Black
Durability (mating cycles max)	200
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	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)	30.48
Plating min: Mating (µm)	0.762
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)	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

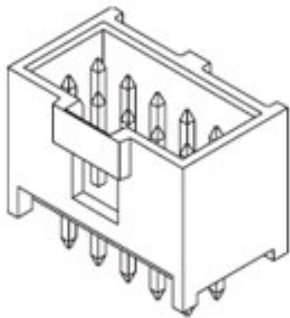


image - Reference only

Series

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

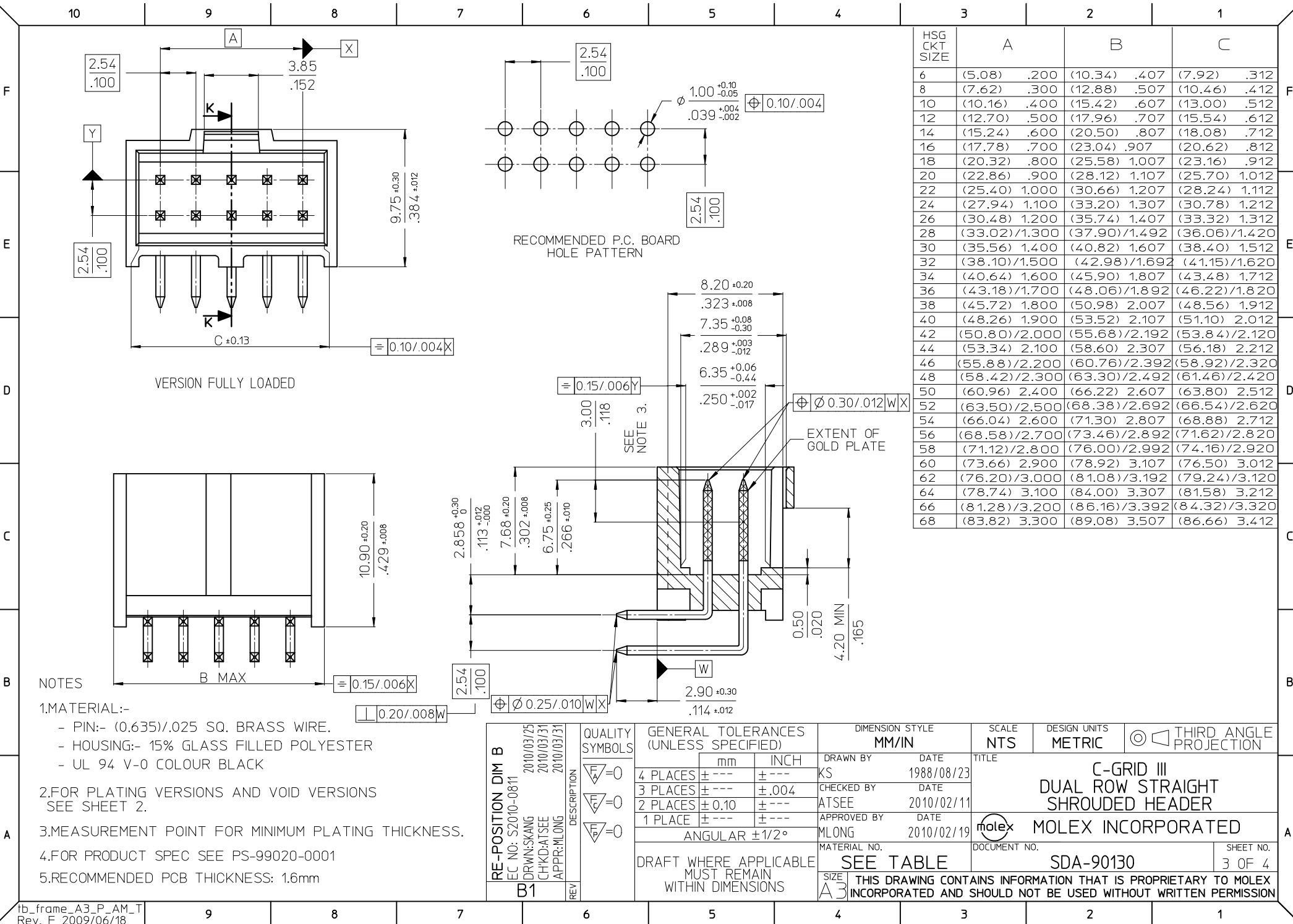
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	10	9	8	7	6	5	4	3	2	1
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER			NOTES: 1. FOR ASSY SEE SHEET 1. 2. FOR PLATING DETAILS SEE SDES-99000-0003 90130 - * * * * INDICATES CIRCUIT HOUSING SIZE (EXCEPTION ON VOIDED OPTION - SEE TABLE FOR HOUSING CIRCUIT SIZE) PLATING 1 - TYPE A 2 - TYPE E 3 - TYPE F 4 - TYPE G STYLE: - STRAIGHT ASSY - 1. VERSION FULLY LOADED BLACK 8. VERSION WITH VOIDS				
			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					
	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					
D	30	30	X130	X230	X330					
	32	32	X132	X232	X332					
	34	34	X134	X234	X334					
	36	36	X136	X236	X336					
	38	38	X138	X238	X338					
	40	40	X140	X240	X340					
	42	42	X142	X242	X342					
	44	44	X144	X244	X344					
C	46	46	X146	X246	X346					
	48	48	X148	X248	X348					
	50	50	X150	X250	X350					
	52	52	X152	X252	X352					
	54	54	X154	X254	X354					
	56	56	X156	X256	X356					
	58	58	X158	X258	X358					
	60	60	X160	X260	X360					
B	62	62	X162	X262	X362					
	64	64	X164	X264	X364					
	66	66	X166	X266	X366					
	68	68	90130-X168	90130-X268	90130-X368					
	VERSION FULLY LOADED									

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

RE-POSITION DIM B EC NO: S2010-0811 DRWN:SKANG CHKD:ATSEE APPR:MLONG	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		▽F=0 ▽F=0 ▽F=0		mm	INCH	DRAWN BY KS	DATE 1988/08/23	C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130				
			4 PLACES	±---	±---	CHECKED BY ATSEE	DATE 2010/02/11					
			3 PLACES	±---	±.004	APPROVED BY MLONG	DATE 2010/02/19					
			2 PLACES	±0.10	±---							
			1 PLACE	±---	±---							
			ANGULAR ±1/2°									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
B1					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

tb_frame_A3_P_AM_T Rev. F 2009/06/18	9	8	7	6	5	4	3	2	1
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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

- 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	QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm INCH	DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE MATERIAL NO. SIZE	DATE 1988/08/23 DATE 2010/02/11 DATE 2010/02/19	TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED	DOCUMENT NO. SDA-90130	SHEET NO. 3 OF 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE							

	10		9		8		7		6		5		4		3		2		1	
	NO OF CKTS	HSG CKT SIZE	PART NUMBER																	
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F															
F	6	6	90130-X106	90130-X206	90130-X306															
	8	8	↑ X108	↑ X208	↑ X308															
	10	10	X110	X210	X310															
	12	12	X112	X212	X312															
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	66	66	↓ X166	↓ X266	↓ X366															
B	68	68	90130-X168	90130-X268	90130-X368															
VERSION FULLY LOADED																				
RE-POSITION DIM B EC NO: S2010-0811 DRWN:SKANG CHKD:ATSEE APPR:MLONG			2010/03/25 2010/03/31 2010/03/31		DESCRIPTION REV B1	QUALITY SYMBOLS FA=0 FE=0 FF=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 DRAWN BY DATE KS 1988/08/23 CHECKED BY DATE ATSEE 2010/02/11 APPROVED BY DATE MLONG 2010/02/19 MATERIAL NO. SEE TABLE		SCALE NTS TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		SHEET NO. 4 OF 4			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				

NOTES:

1. FOR ASSY SEE SHEET 3.
2. FOR PLATING DETAILS SEE SDES-99000-0003

90130 - * * * *

INDICATES CIRCUIT HOUSING SIZE

PLATING

1 - TYPE A
2 - TYPE E
3 - TYPE F

STYLE:- RIGHT ANGLE ASSY
- 3 VERSION FULLY LOADED BLACK

