

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901301324

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 24 Circuits, Black, 0.76µm (30µ") Gold (Au) Selective Plating

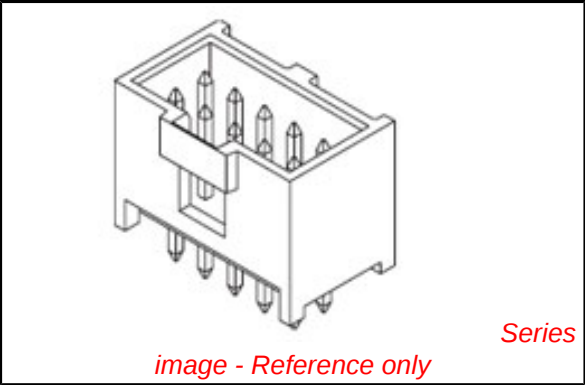
Documents:

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)	24
Circuits (maximum)	24
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



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

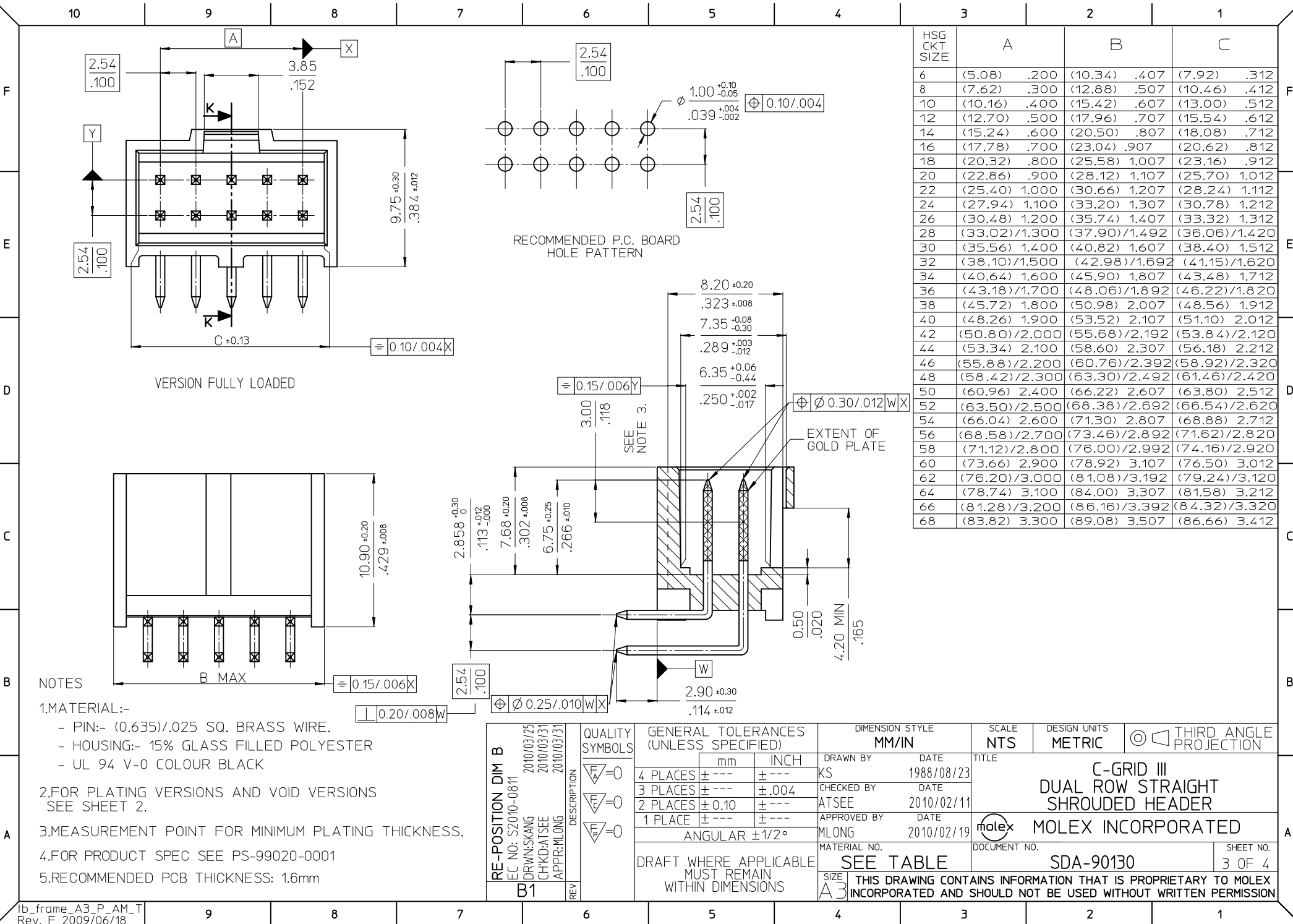
Reference - Drawing Numbers

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

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

		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 - * * * * 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												
	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																				
	VOIDED OPTION																				
RE-POSITION DIM B EC NO: S2010-0811 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2010/03/25 2010/03/31 2010/03/31 QUALITY SYMBOLS F=0 F=0 F=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 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130 SHEET NO. 2 OF 4																					
tb_frame_A3_P_AM_T		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

$F_A=0$

$F_G=0$

$F_P=0$

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
KS	1988/08/23
CHECKED BY	DATE
ATSEE	2010/02/11
APPROVED BY	DATE
MLONG	2010/02/19

MATERIAL NO.

SEE TABLE

SIZE A3

SCALE

NTS

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

C-GRID III

DUAL ROW STRAIGHT

SHROUDED HEADER

MOLEX INCORPORATED

SDA-90130

DOCUMENT NO.

SHEET NO.

	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															
	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															
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	62	62	X162	X262	X362															
	64	64	X164	X264	X364															
	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		QUALITY SYMBOLS F=0 F=0 F=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°			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			SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
B1					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130			SHEET NO. 4 OF 4			
tb_frame_A3_P_AM_T Rev. F 2009/06/18			9		8		7		6		5		4		3		2		1	

NOTES:

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

90130 - * * * *

INDICATES CIRCUIT HOUSING SIZE

PLATING

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

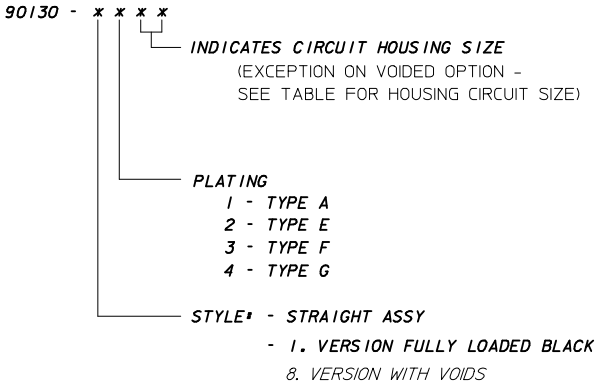
STYLE:- RIGHT ANGLE ASSY
- 3 VERSION FULLY LOADED BLACK

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
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
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
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
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

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

Z

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

SHEET NO.
2 OF 4

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