

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901301216

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 16 Circuits, Black, 0.38µm (15µ") Gold (Au) Selective Plating

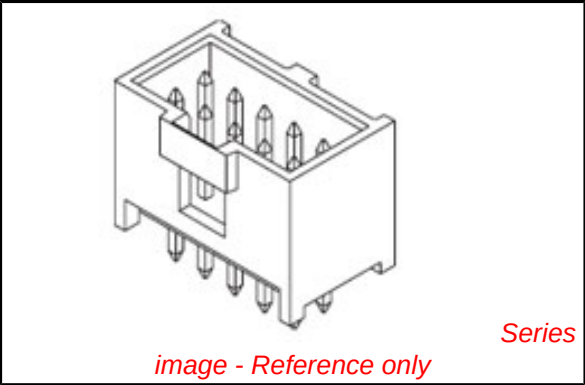
Documents:

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)	100
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)	15.2
Plating min: Mating (µm)	0.38
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

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

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

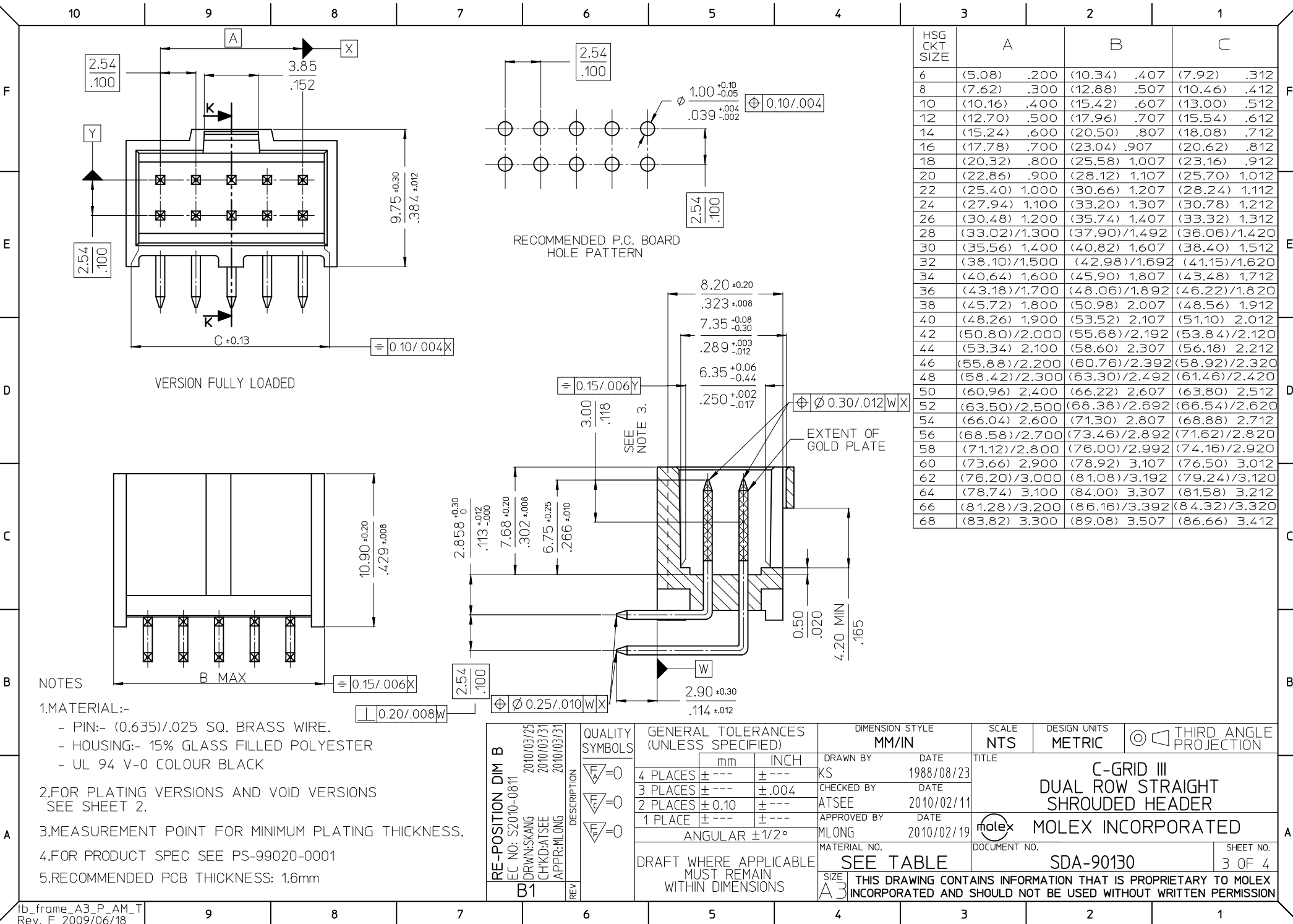
Reference - Drawing Numbers

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				
A	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° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
									DRAWN BY KS		DATE 1988/08/23		C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER		
									CHECKED BY ATSEE		DATE 2010/02/11				
									APPROVED BY MLONG		DATE 2010/02/19		MOLEX INCORPORATED		
					MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-90130		SHEET NO. 2 OF 4						
					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															



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	2010/03/25 2010/03/31 2010/03/31 2010/03/31	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 		
			 =0	mm INCH	DRAWN BY KS	DATE 1988/08/23	TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED					
			 =0	4 PLACES ± --- ± --- 3 PLACES ± --- ± .004	CHECKED BY ATSEE	DATE 2010/02/11						
			 =0	2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± ---	APPROVED BY MLONG	DATE 2010/02/19						
			ANGULAR ± 1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SDA-90130				3 OF 4	
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

	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														
	22	22	X122	X222	X322														
	24	24	X124	X224	X324														
E	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														
D	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														

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

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

VERSION FULLY LOADED

RE-POSITION DIM B	EC NO: S2010-0811	2010/03/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
	DRWN:SKANG	2010/03/31				MM/IN		NTS	METRIC			
	CHKD:ATSEE	2010/03/31				DRAWN BY	DATE	C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER				
	APPR:MLONG	2010/03/31				CHECKED BY	DATE					
						APPROVED BY	DATE	MOLEX INCORPORATED				
B1	REV					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
						SEE TABLE		SDA-90130		4 OF 4		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

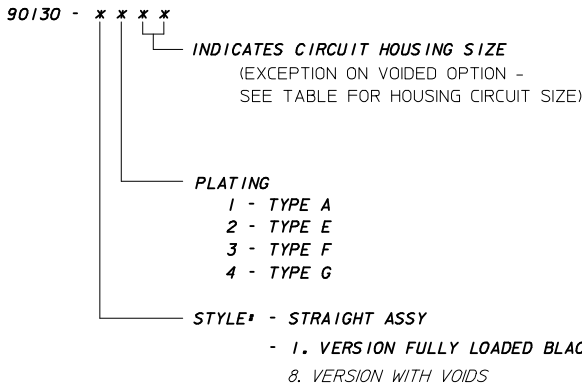
NO OF CKTS	HSG CKT SIZE	PART NUMBER		
		PLATING TYPE A	PLATING TYPE E	PLATING TYPE F
6	6	90130-X106	90130-X206	90130-X306
8	8	X108	X208	X308
10	10	X110	X210	X310
12	12	X112	X212	X312
14	14	X114	X214	X314
16	16	X116	X216	X316
18	18	X118	X218	X318
20	20	X120	X220	X320
22	22	X122	X222	X322
24	24	X124	X224	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

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

1b_frame_A2_P_ME_T
Rev. E 2006/04/15

12

11

10

9

8

7

6

5

4

3

2

1