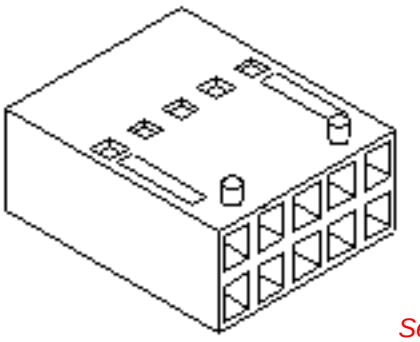
This document was generated on 04/09/2010

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** 0901430050
**Status:** Active
**Overview:** C-Grid III™
**Description:** 2.54mm (.100") Pitch C-Grid III™ Modular Crimp Housing, Dual Row, 50 Circuits



*Series image - Reference only*

**Documents:**
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | Crimp Housings |
| Series | 90143 |
| Comments | No Buttons |
| Overview | C-Grid III™ |
| Product Name | C-Grid III™ |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (maximum) | 50 |
| Circuits Detail | No Voided Circuits |
| Color - Resin | Black |
| Gender | Female |
| Glow-Wire Compliant | No |
| Keying to Mating Part | None |
| Lock to Mating Part | No |
| Material - Resin | PPO |
| Number of Rows | 2 |
| Packaging Type | Bag |
| Panel Mount | No |
| 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 |
| Polarized to Mating Part | No |
| Ports | 1 |
| Stackable | Yes |
| Temperature Range - Operating | -55°C to +105°C |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 3A |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Sales Drawing | SD-90143 |

**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**
90143Series

**Mates With**
C-Grid III™ Header, Dual Row 90122 , 90130 , 90131

**Use With**
C-Grid III™ Crimp Terminal 90119

This document was generated on 04/09/2010

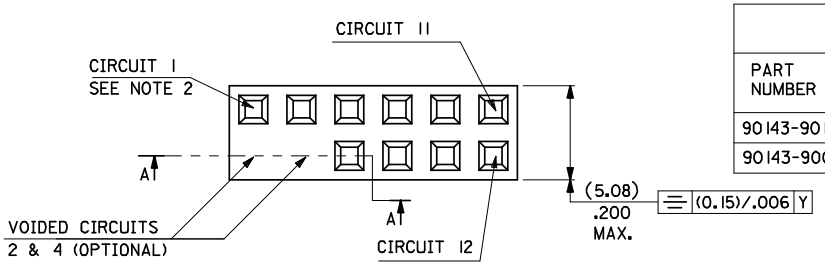
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

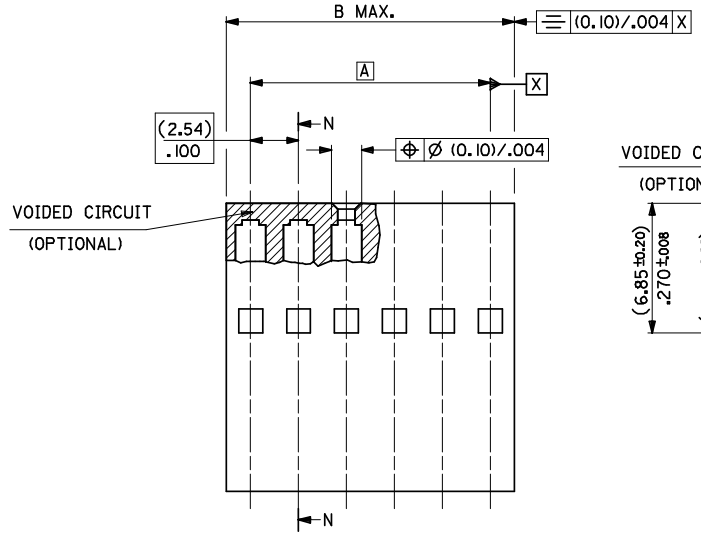
## VOIDED OPTIONS

| PART NUMBER | CCT SIZE | VOID LOCATIONS | FOR MISSING DIMS SEE PART NUMBER |
|---|---|---|---|
| 90143-9012 | 12 | 2 & 4 | 90143-0012 |
| 90143-9000 | 12 | 2,4 & 7 | 90143-0012 |

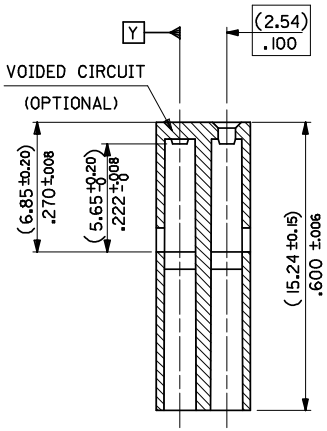
## NON-VOIDED OPTIONS

| NO. OF CKTS | PART NUMBER NO BUTTONS | PART NUMBER WITH BUTTONS | DIM A | DIM B | DIM C |
|---|---|---|---|---|---|
| 4 | 90143-0004 | 90143-0104 | (2.54)/0.100 | (5.08)/0.200 | — |
| 6 | 90143-0006 | 90143-0106 | (5.08)/0.200 | (7.62)/0.300 | (2.54)/0.100 |
| 8 | 90143-0008 | 90143-0108 | (7.62)/0.300 | (10.16)/0.400 | (5.08)/0.200 |
| 10 | 90143-0010 | 90143-0110 | (10.16)/0.400 | (12.70)/0.500 | (7.62)/0.300 |
| 12 | 90143-0012 | 90143-0112 | (12.70)/0.500 | (15.24)/0.600 | (10.16)/0.400 |
| 14 | 90143-0014 | 90143-0114 | (15.24)/0.600 | (17.78)/0.700 | (12.70)/0.500 |
| 16 | 90143-0016 | 90143-0116 | (17.78)/0.700 | (20.32)/0.800 | (15.24)/0.600 |
| 18 | 90143-0018 | 90143-0118 | (20.32)/0.800 | (22.86)/0.900 | (17.78)/0.700 |
| 20 | 90143-0020 | 90143-0120 | (22.86)/0.900 | (25.40)/1.000 | (20.32)/0.800 |
| 22 | 90143-0022 | 90143-0122 | (25.40)/1.000 | (27.94)/1.100 | (22.86)/0.900 |
| 24 | 90143-0024 | 90143-0124 | (27.94)/1.100 | (30.48)/1.200 | (25.40)/1.000 |
| 26 | 90143-0026 | 90143-0126 | (30.48)/1.200 | (33.02)/1.300 | (27.94)/1.100 |
| 28 | 90143-0028 | 90143-0128 | (33.02)/1.300 | (35.56)/1.400 | (30.48)/1.200 |
| 30 | 90143-0030 | 90143-0130 | (35.56)/1.400 | (38.10)/1.500 | (33.02)/1.300 |
| 32 | 90143-0032 | 90143-0132 | (38.10)/1.500 | (40.64)/1.600 | (35.56)/1.400 |
| 34 | 90143-0034 | 90143-0134 | (40.64)/1.600 | (43.18)/1.700 | (38.10)/1.500 |
| 36 | 90143-0036 | 90143-0136 | (43.18)/1.700 | (45.72)/1.800 | (40.64)/1.600 |
| 38 | 90143-0038 | 90143-0138 | (45.72)/1.800 | (48.26)/1.900 | (43.18)/1.700 |
| 40 | 90143-0040 | 90143-0140 | (48.26)/1.900 | (50.80)/2.000 | (45.72)/1.800 |
| 42 | 90143-0042 | 90143-0142 | (50.80)/2.000 | (53.34)/2.100 | (48.26)/1.900 |
| 44 | 90143-0044 | 90143-0144 | (53.34)/2.100 | (55.88)/2.200 | (50.80)/2.000 |
| 46 | 90143-0046 | 90143-0146 | (55.88)/2.200 | (58.42)/2.300 | (53.34)/2.100 |
| 48 | 90143-0048 | 90143-0148 | (58.42)/2.300 | (60.96)/2.400 | (55.88)/2.200 |
| 50 | 90143-0050 | 90143-0150 | (60.96)/2.400 | (63.50)/2.500 | (58.42)/2.300 |
| 52 | 90143-0052 | 90143-0152 | (63.50)/2.500 | (66.04)/2.600 | (60.96)/2.400 |
| 54 | 90143-0054 | 90143-0154 | (66.04)/2.600 | (68.58)/2.700 | (63.50)/2.500 |
| 56 | 90143-0056 | 90143-0156 | (68.58)/2.700 | (71.12)/2.800 | (66.04)/2.600 |
| 58 | 90143-0058 | 90143-0158 | (71.12)/2.800 | (73.66)/2.900 | (68.58)/2.700 |
| 60 | 90143-0060 | 90143-0160 | (73.66)/2.900 | (76.20)/3.000 | (71.12)/2.800 |
| 62 | 90143-0062 | 90143-0162 | (76.20)/3.000 | (78.74)/3.100 | (73.66)/2.900 |
| 64 | 90143-0064 | 90143-0164 | (78.74)/3.100 | (81.28)/3.200 | (76.20)/3.000 |

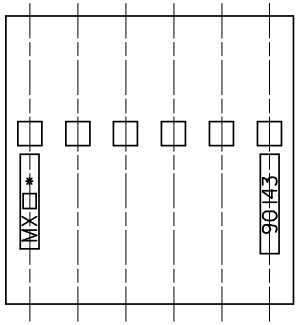



PARTIAL SECTION A-A

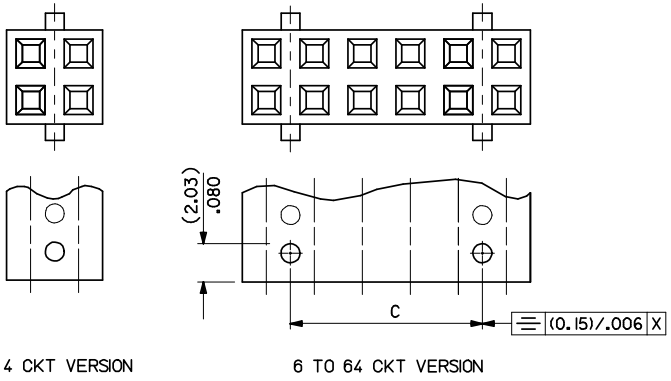



SECTION N-N




## NO POLARISING BUTTON VERSION

(90143-*0** VERSION )




4 CKT VERSION

6 TO 64 CKT VERSION

## POLARISING BUTTON VERSION

(90143-*1** VERSION )

NOTES:

1. MATERIAL: POLYPHENYLENE OXIDE 94 V1 COLOUR BLACK.
2. 12 CIRCUIT PART SHOWN AS EXAMPLE
3. PRODUCT SPECIFICATION: PS-99020-0001

90143 - x x x x

- INDICATES No. OF CIRCUITS
- INDICATES No. OF POLARISING BUTTONS
  - 0 -- NO BUTTONS
  - 1 -- WITH BUTTONS (4 CKT - 2 BUTTONS)
    (6 TO 64 CKT - 4 BUTTONS)
- INDICATES HOUSING TYPE
  - 0 -- INDICATES NO VOIDED CIRCUITS
  - 9 -- INDICATES VOIDED CIRCUIT OPTION

ADDED NOTE 3 2008/03/12
EC NO: E2008-0466 2008/03/18
DRWN:LKIERNAN
CHKD:
APPR:BMAGUIRE 2008/03/18
DESCRIPTION
REV V

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± .004 |
| 1 PLACE | ± 0.1 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | DATE |
|---|---|---|
| DRAWN BY | DB | 1987/10/06 |
| CHECKED BY | GMCSWEENEY | 2005/08/31 |
| APPROVED BY | JDENNEHY | 2005/08/31 |

TITLE: C-GRID MODR CRP HSG DR W/O POL BTTN

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-90143
SHEET NO.: 1 OF 1
SIZE: A2

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