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Part Number:

0850130414

Status:

Active

Overview:

din\_41612

Description:

2.54mm (.100") Pitch DIN 41612 Header, Vertical, Style R Reverse,1µm (40 µ")  
Selective Gold (Au), 96 Circuits, Lead free

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

|                                |                      |
|--------------------------------|----------------------|
| Agency Certification           |                      |
| CSA                            | LR19980              |
| UL                             | E29179               |
| General                        |                      |
| Product Family                 | Backplane Connectors |
| Series                         | 85013                |
| Application                    | Backplane            |
| Component Type                 | PCB Header           |
| Overview                       | din_41612            |
| Product Name                   | IEC 603-2/DIN 41612  |
| Style                          | R                    |
| Physical                       |                      |
| Circuits (Loaded)              | 96                   |
| Circuits (maximum)             | 96                   |
| Circuits Detail                | Rows A, B, & C       |
| Durability (mating cycles max) | 500                  |
| First Mate / Last Break        | No                   |
| Flammability                   | 94V-0                |
| Guide to Mating Part           | No                   |
| Keying to Mating Part          | Yes                  |
| Number of Columns              | 32                   |
| Number of Pairs                | Open Pin Field       |
| Number of Rows                 | 3                    |
| Orientation                    | Vertical             |
| PC Tail Length (in)            | 0.524 In             |
| PC Tail Length (mm)            | 13.30 mm             |
| PCB Locator                    | No                   |
| PCB Retention                  | Yes                  |
| PCB Thickness Recommended (in) | 0.062 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)      | 39                   |
| Plating min: Mating (µm)       | 1                    |
| Surface Mount Compatible (SMC) | No                   |
| Temperature Range - Operating  | -55°C to +125°C      |
| Electrical                     |                      |
| Current - Maximum per Contact  | 1A                   |
| Data Rate                      | 622.0 Mbps           |
| Voltage - Maximum              | 1000V (RMS)          |

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



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For a multiple part number RoHS Certificate of Compliance, [click here](#)

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Search Parts in this Series

85013Series

Mates With

85042 Backplane Header, 85052 Backplane Header

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 10                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Process Temperature max. C                     | 260                    |

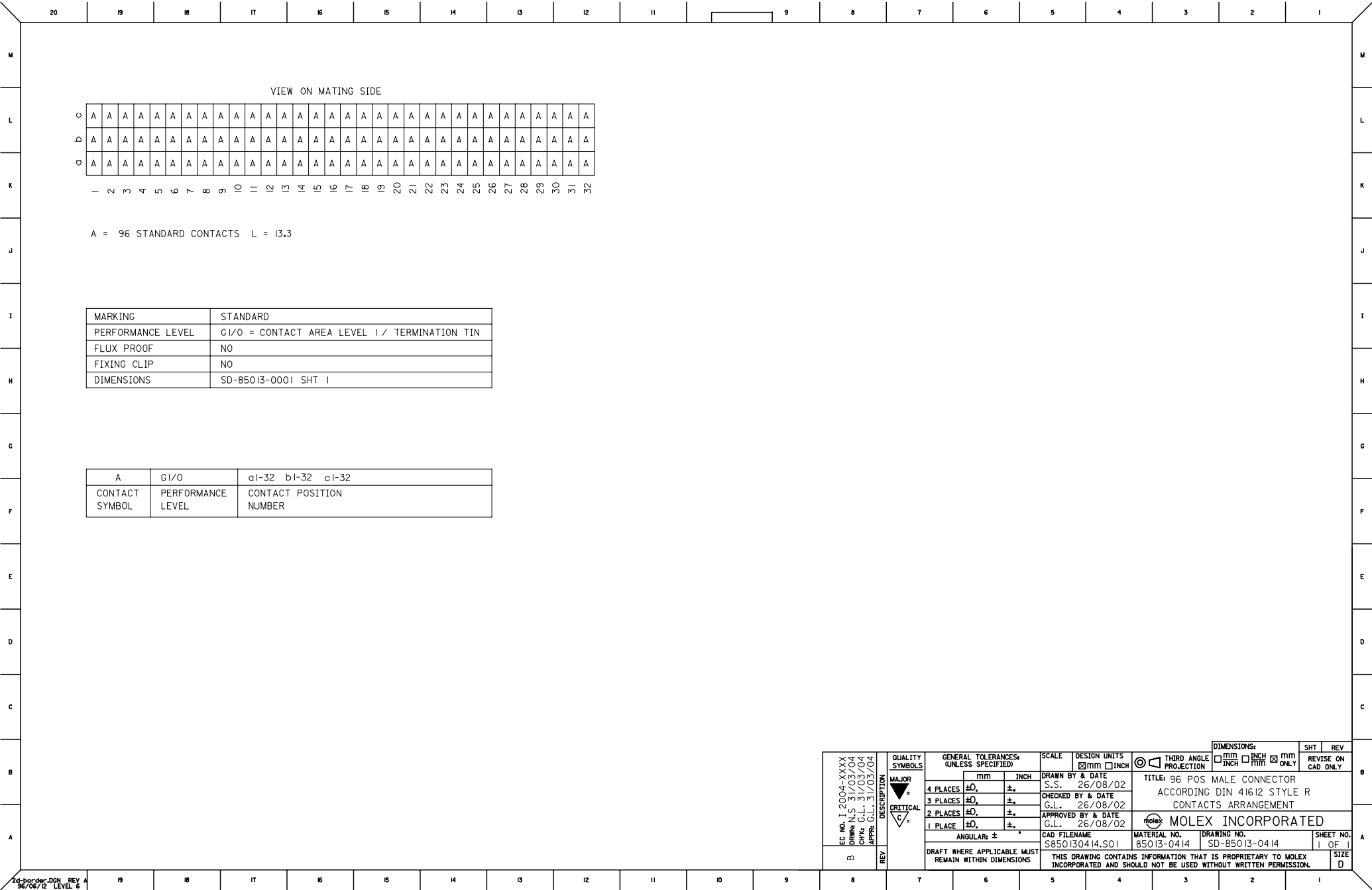
**Material Info**

**Reference - Drawing Numbers**

|               |                                               |
|---------------|-----------------------------------------------|
| Sales Drawing | SD-85013-0414, SDA-85013-0001, SDA-85013-0414 |
|---------------|-----------------------------------------------|

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VIEW ON MATING SIDE

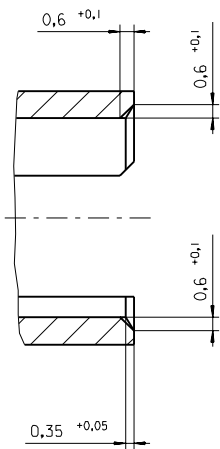
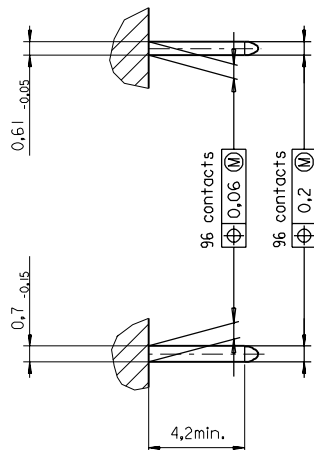
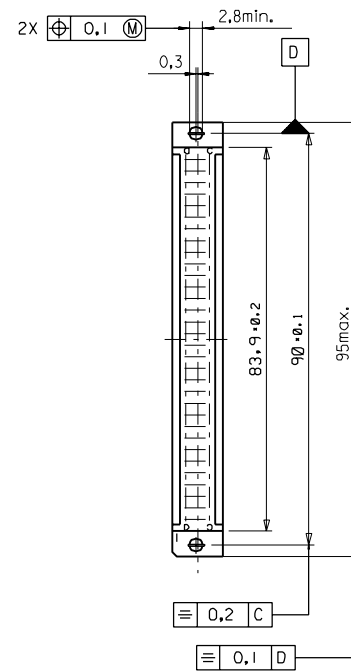
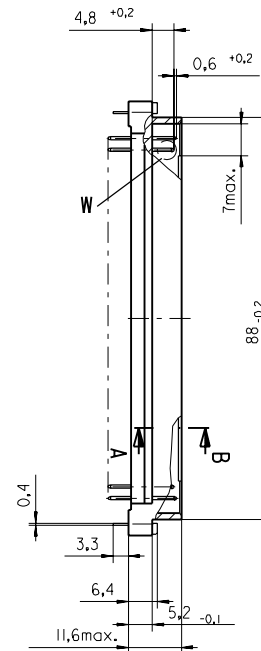
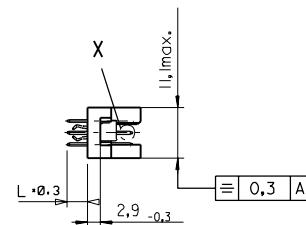
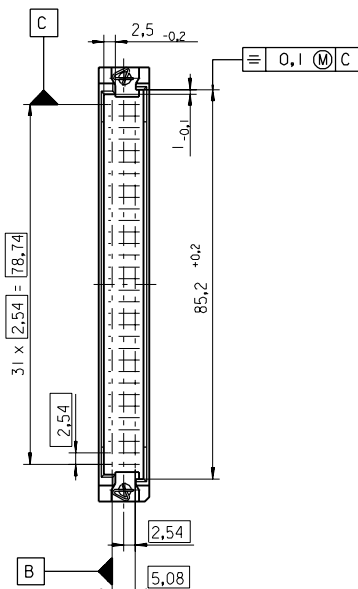
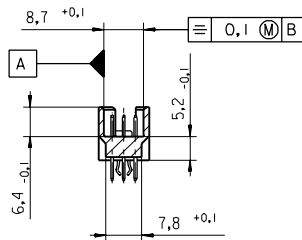
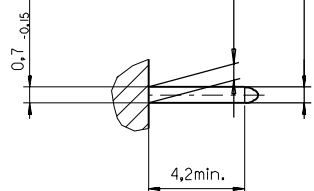
|    | c |   | b |   | a |   |
|----|---|---|---|---|---|---|
| 1  | A | A | A | A | A | A |
| 2  | A | A | A | A | A | A |
| 3  | A | A | A | A | A | A |
| 4  | A | A | A | A | A | A |
| 5  | A | A | A | A | A | A |
| 6  | A | A | A | A | A | A |
| 7  | A | A | A | A | A | A |
| 8  | A | A | A | A | A | A |
| 9  | A | A | A | A | A | A |
| 10 | A | A | A | A | A | A |
| 11 | A | A | A | A | A | A |
| 12 | A | A | A | A | A | A |
| 13 | A | A | A | A | A | A |
| 14 | A | A | A | A | A | A |
| 15 | A | A | A | A | A | A |
| 16 | A | A | A | A | A | A |
| 17 | A | A | A | A | A | A |
| 18 | A | A | A | A | A | A |
| 19 | A | A | A | A | A | A |
| 20 | A | A | A | A | A | A |
| 21 | A | A | A | A | A | A |
| 22 | A | A | A | A | A | A |
| 23 | A | A | A | A | A | A |
| 24 | A | A | A | A | A | A |
| 25 | A | A | A | A | A | A |
| 26 | A | A | A | A | A | A |
| 27 | A | A | A | A | A | A |
| 28 | A | A | A | A | A | A |
| 29 | A | A | A | A | A | A |
| 30 | A | A | A | A | A | A |
| 31 | A | A | A | A | A | A |
| 32 | A | A | A | A | A | A |

A = 96 STANDARD CONTACTS L = 13.3

|                   |                                               |
|-------------------|-----------------------------------------------|
| MARKING           | STANDARD                                      |
| PERFORMANCE LEVEL | G1/O = CONTACT AREA LEVEL 1 / TERMINATION TIN |
| FLUX PROOF        | NO                                            |
| FIXING CLIP       | NO                                            |
| DIMENSIONS        | SD-85013-0001 SHT 1                           |

|                |                   |                         |
|----------------|-------------------|-------------------------|
| A              | G1/O              | a1-32 b1-32 c1-32       |
| CONTACT SYMBOL | PERFORMANCE LEVEL | CONTACT POSITION NUMBER |

|                                                                                        |     |             |                                      |                                                                                                                                |  |                                     |                         |                                                                                       |                        |                                |  |                    |     |           |                            |
|----------------------------------------------------------------------------------------|-----|-------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|-------------------------|---------------------------------------------------------------------------------------|------------------------|--------------------------------|--|--------------------|-----|-----------|----------------------------|
| EC. NO. I 2004-XXXX<br>DRAWN N.S. 31/03/04<br>CHKD G.L. 31/03/04<br>APPR G.L. 31/03/04 |     |             | QUALITY SYMBOLS<br>MAJOR<br>CRITICAL | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                       |  | SCALE                               | DESIGN UNITS<br>mm INCH |  | THIRD ANGLE PROJECTION | DIMENSIONS:<br>mm INCH mm ONLY |  |                    | SHT | REV       |                            |
|                                                                                        |     |             |                                      | mm INCH                                                                                                                        |  |                                     |                         |                                                                                       | mm INCH mm ONLY        |                                |  | REVISE ON CAD ONLY |     |           |                            |
| B                                                                                      | REV | DESCRIPTION |                                      | mm INCH                                                                                                                        |  | DRAWN BY & DATE<br>S.S. 26/08/02    |                         | TITLE: 96 POS MALE CONNECTOR<br>ACCORDING DIN 41612 STYLE R<br>CONTACTS ARRANGEMENT   |                        |                                |  |                    |     |           |                            |
|                                                                                        |     |             |                                      | 4 PLACES $\pm 0.1$ $\pm .004$                                                                                                  |  | CHECKED BY & DATE<br>G.L. 26/08/02  |                         |                                                                                       |                        |                                |  |                    |     |           |                            |
|                                                                                        |     |             |                                      | 2 PLACES $\pm 0.1$ $\pm .004$                                                                                                  |  | APPROVED BY & DATE<br>G.L. 26/08/02 |                         | MOLEX INCORPORATED                                                                    |                        |                                |  |                    |     |           |                            |
|                                                                                        |     |             |                                      | 1 PLACE $\pm 0.1$ $\pm .004$                                                                                                   |  | CAD FILENAME<br>S850130414.S01      |                         |                                                                                       |                        |                                |  |                    |     |           | MATERIAL NO.<br>85013-0414 |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                   |     |             |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |                                     |                         |                                                                                       |                        |                                |  |                    |     | SIZE<br>D |                            |

Section A - B  
5:1View X  
5:1View W  
5:1

FIRST ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED  
TOLERANCES: ANGULAR  $\pm 2^\circ$ 

|         | INCH    | METRIC |
|---------|---------|--------|
| 3 PLACE | $\pm .$ | $\pm$  |
| 2 PLACE | $\pm .$ | $\pm$  |
| 1 PLACE | $\pm .$ | $\pm$  |

DRAFT WHERE APPLICABLE MUST  
REMAIN WITHIN DIMENSIONSDESIGN DIMENSION ☒ MM  
☐ IN.EQUIVALENT DIMENSION ☐ MM  
☐ IN.IF TWO DIMENSIONS ARE SHOWN THE UPPER IS  
THE DESIGN DIMENSION, LOWER IS SECONDARYDRWG  
BY

Ca

CHK'D  
BY

KN

APP'D  
BY

SCALE

1:1

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

REVISE ONLY ON CAD SYSTEM

SH. REV.

CAD/CAM PROJECT NAME  
85013000  
611THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO  
MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSIONTITLE  
96 pos. Male connector  
acc. DIN 41612 Style R  
Dimensions

MOLEX MOLEX EUROPE

SHEET NO. DATE  
1 OF 95/06/07

PART NO.

DWG NO.  
SDA-85013-0001SIZE  
Bfirst release  
see ECN No. 1887

LTR REVISIONS

A

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

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