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Part Number:

0850037093

Status:

Active

Overview:

[din\\_41612](#)

Description:

2.54mm (.100") Pitch DIN 41612 C/2 Style Male Header, Right Angle, Through Hole, 0.80µm (32µ") Selective Gold (Au) Plating, 48 Circuits, with Mounting Clips, No Flux Proof, Lead free, High Temperature version

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

[Product Specification PS-85003-0001 \(PDF\)](#)

|                                |                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                       |
| CSA                            | LR19980                                                                                                               |
| UL                             | E29179                                                                                                                |
| General                        |                                                                                                                       |
| Product Family                 | Backplane Connectors                                                                                                  |
| Series                         | 85003                                                                                                                 |
| Application                    | Backplane                                                                                                             |
| Comments                       | With Mounting Clips. No Flux Proof. 5.4mm(.213") First-Mate-Last- Break Contacts. 4.8mm(.189") Normal Contacts        |
| Component Type                 | PCB Header                                                                                                            |
| Overview                       | <a href="#">din_41612</a>                                                                                             |
| Product Name                   | IEC 603-2/DIN 41612                                                                                                   |
| Style                          | C/2                                                                                                                   |
| Physical                       |                                                                                                                       |
| Circuits (Loaded)              | 48                                                                                                                    |
| Circuits (maximum)             | 48                                                                                                                    |
| Circuits Detail                | Standard Contacts at: A:a2-a15; B:b1-b16, C:c2-c15 . First-Mate-Last- Break Contacts at: X:c1,c16; Y:b1,b16; Z:a1,a16 |
| Color - Resin                  | Natural                                                                                                               |
| Durability (mating cycles max) | 400                                                                                                                   |
| First Mate / Last Break        | Yes                                                                                                                   |
| Flammability                   | 94V-0                                                                                                                 |
| Guide to Mating Part           | No                                                                                                                    |
| Keying to Mating Part          | Yes                                                                                                                   |
| Material - Metal               | Brass                                                                                                                 |
| Material - Plating Mating      | Gold                                                                                                                  |
| Material - Plating Termination | Tin                                                                                                                   |
| Material - Resin               | High Temperature Thermoplastic                                                                                        |
| Number of Columns              | 16                                                                                                                    |
| Number of Pairs                | Open Pin Field                                                                                                        |
| Number of Rows                 | 3                                                                                                                     |
| Orientation                    | Right Angle                                                                                                           |
| PC Tail Length (in)            | 0.118 In                                                                                                              |
| PC Tail Length (mm)            | 3.00 mm                                                                                                               |
| PCB Locator                    | No                                                                                                                    |
| PCB Retention                  | Yes                                                                                                                   |
| PCB Thickness Recommended (in) | 0.062 In                                                                                                              |
| PCB Thickness Recommended (mm) | 1.60 mm                                                                                                               |
| Packaging Type                 | Carton                                                                                                                |
| Pitch - Mating Interface (in)  | 0.100 In                                                                                                              |
| Pitch - Mating Interface (mm)  | 2.54 mm                                                                                                               |

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](mailto: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

85003Series

|                                |                 |
|--------------------------------|-----------------|
| Pitch - Term. Interface (in)   | 0.100 In        |
| Pitch - Term. Interface (mm)   | 2.54 mm         |
| Plating min: Mating (µin)      | 32              |
| Plating min: Mating (µm)       | 0.80            |
| Plating min: Termination (µin) | 98              |
| Plating min: Termination (µm)  | 2.5             |
| Polarized to PCB               | Yes             |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -55°C to +125°C |
| Termination Interface: Style   | Through Hole    |

**Electrical**

|                               |               |
|-------------------------------|---------------|
| Current - Maximum per Contact | 1A            |
| Data Rate                     | 622.0 Mbps    |
| Voltage - Maximum             | 250V AC (RMS) |

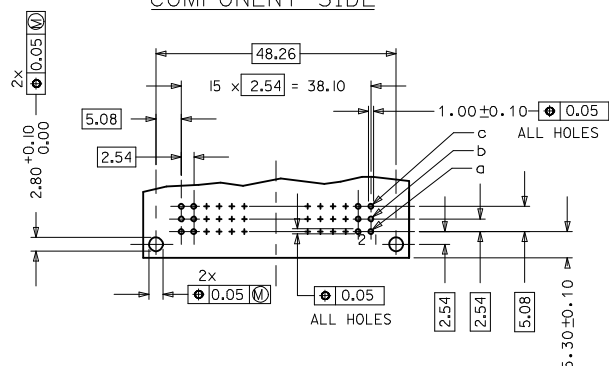
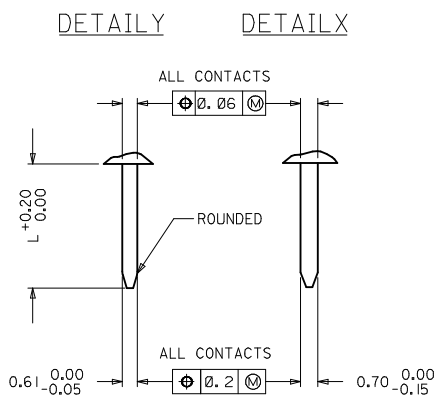
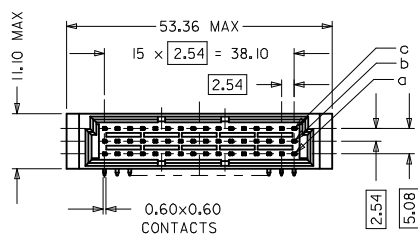
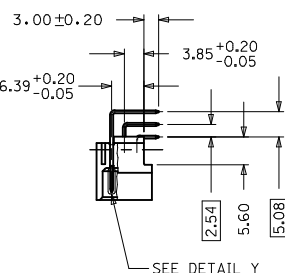
**Material Info**

**Reference - Drawing Numbers**

|                         |                              |
|-------------------------|------------------------------|
| Packaging Specification | PK-85003-002                 |
| Product Specification   | PS-85003-0001                |
| Sales Drawing           | SD-85003-0002, SD-85003-7093 |

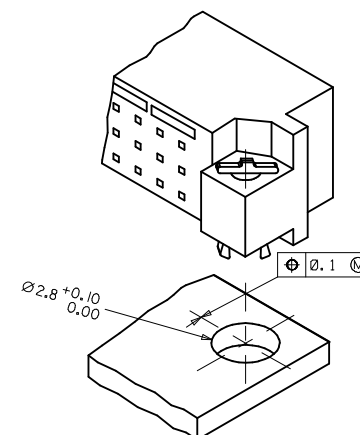
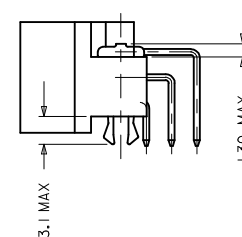
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|                     |     |
|---------------------|-----|
| PRE MATING CONTACTS | 5.4 |
| NORMAL CONTACTS     | 4.8 |
|                     | L   |

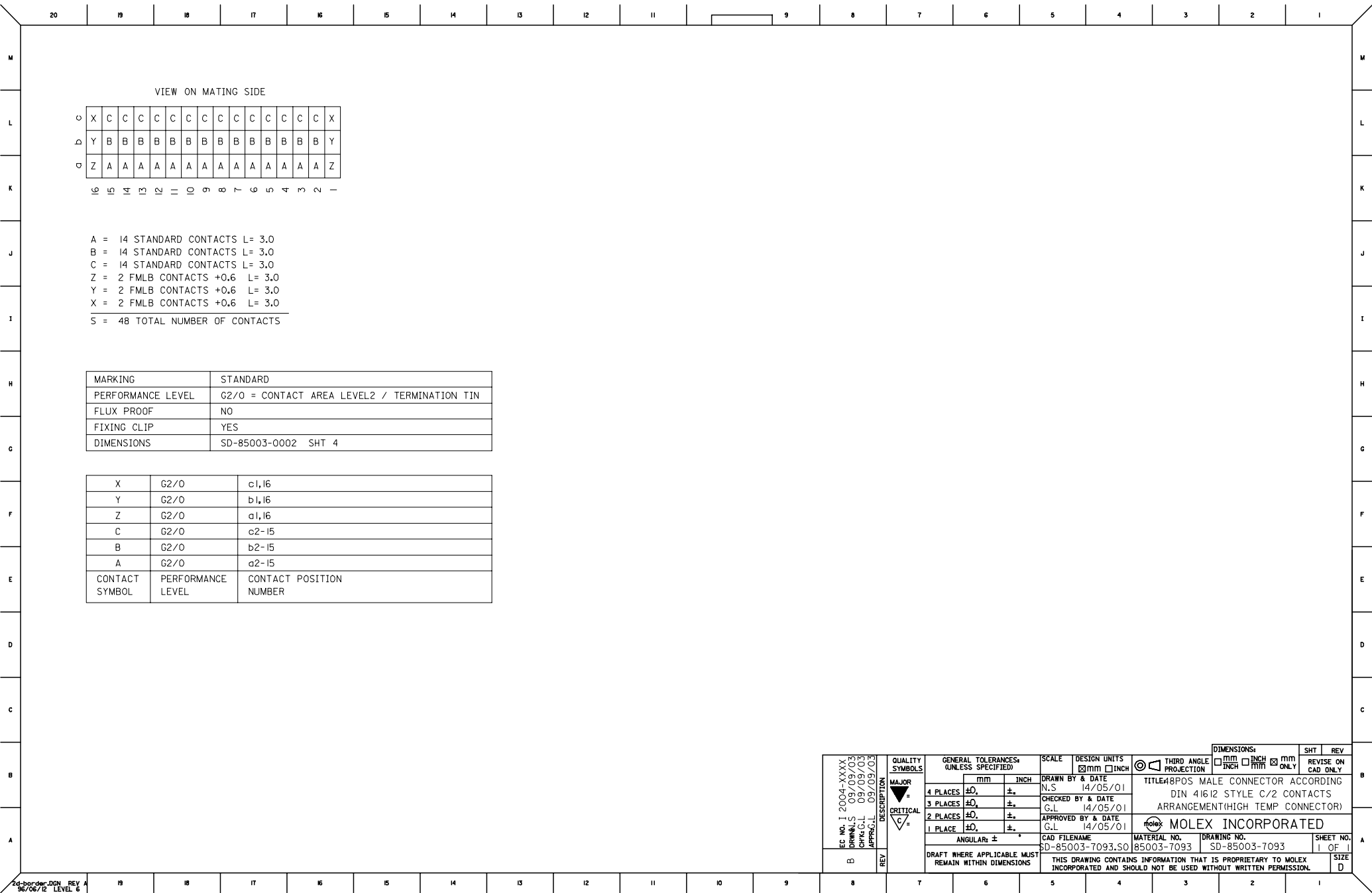
8:1



7) PRODUCT SPECIFICATION PS : 85003-0001

RoHS COMPLIANT

| EC NO: 2007-0072                                           |            | 2008/06/07     |  | 2008/06/19         |  | 2009/11/22  |  | QUALITY SYMBOLS    |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |  | DIMENSION STYLE<br>MM ONLY                                                                                                                                                                                                                                                      |  | SCALE<br>2:1 |    | DESIGN UNITS<br>METRIC |            | THIRD ANGLE<br>PROJECTION |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
|------------------------------------------------------------|------------|----------------|--|--------------------|--|-------------|--|--------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|----|------------------------|------------|---------------------------|------|------------|------|------|------------|-----|------|-----------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|------|----|------------|------------|------|--------|------------|-------------|------|--------|------------|-------|--|
| DRAWING AVERAGES                                           |            | CHDKSDJHJR     |  | CHDKSDJHJR         |  | APPR:KPRASD |  | DESCRIPTION        |  | <div><div>▽=0</div><div>▽=0</div></div>                                                                                          |  | <table><tr><th></th><th>mm</th><th>INCH</th></tr><tr><td>4 PLACES ±</td><td>0.05</td><td>±---</td></tr><tr><td>3 PLACES ±</td><td>0.05</td><td>±---</td></tr><tr><td>2 PLACES ±</td><td>0.1</td><td>±---</td></tr><tr><td>1 PLACE ±</td><td>0.15</td><td>±---</td></tr></table> |  |              | mm | INCH                   | 4 PLACES ± | 0.05                      | ±--- | 3 PLACES ± | 0.05 | ±--- | 2 PLACES ± | 0.1 | ±--- | 1 PLACE ± | 0.15 | ±--- | <table><tr><th>DRAWN BY</th><th>DATE</th></tr><tr><td>NS</td><td>2001/05/14</td></tr><tr><th>CHECKED BY</th><th>DATE</th></tr><tr><td>GJLOWE</td><td>2001/05/14</td></tr><tr><th>APPROVED BY</th><th>DATE</th></tr><tr><td>GJLOWE</td><td>2001/05/14</td></tr></table> |  | DRAWN BY | DATE | NS | 2001/05/14 | CHECKED BY | DATE | GJLOWE | 2001/05/14 | APPROVED BY | DATE | GJLOWE | 2001/05/14 | TITLE |  |
|                                                            | mm         | INCH           |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| 4 PLACES ±                                                 | 0.05       | ±---           |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| 3 PLACES ±                                                 | 0.05       | ±---           |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| 2 PLACES ±                                                 | 0.1        | ±---           |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| 1 PLACE ±                                                  | 0.15       | ±---           |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| DRAWN BY                                                   | DATE       |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| NS                                                         | 2001/05/14 |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| CHECKED BY                                                 | DATE       |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| GJLOWE                                                     | 2001/05/14 |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| APPROVED BY                                                | DATE       |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| GJLOWE                                                     | 2001/05/14 |                |  |                    |  |             |  |                    |  |                                                                                                                                  |  |                                                                                                                                                                                                                                                                                 |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| 48 POS. MALE CONNECTOR                                     |            | ACC. DIN 41612 |  | STYLE C/2 CONTACTS |  | MOLEX       |  | MOLEX INCORPORATED |  | DOCUMENT NO.                                                                                                                     |  | SD-85003-0002                                                                                                                                                                                                                                                                   |  | SHEET NO.    |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |            | MATERIAL NO.   |  | SEE CHART          |  | SIZE        |  | A1                 |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | 4 OF 4                                                                                                                                                                                                                                                                          |  |              |    |                        |            |                           |      |            |      |      |            |     |      |           |      |      |                                                                                                                                                                                                                                                                        |  |          |      |    |            |            |      |        |            |             |      |        |            |       |  |



VIEW ON MATING SIDE

|   |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |
|---|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|
| Q | X  | C  | C  | C  | C  | C  | C  | C | C | C | C | C | C | C | X |   |
| D | Y  | B  | B  | B  | B  | B  | B  | B | B | B | B | B | B | B | Y |   |
| Q | Z  | A  | A  | A  | A  | A  | A  | A | A | A | A | A | A | A | Z |   |
|   | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

A = 14 STANDARD CONTACTS L= 3,0  
B = 14 STANDARD CONTACTS L= 3,0  
C = 14 STANDARD CONTACTS L= 3,0  
Z = 2 FMLB CONTACTS +0.6 L= 3,0  
Y = 2 FMLB CONTACTS +0.6 L= 3,0  
X = 2 FMLB CONTACTS +0.6 L= 3,0  
S = 48 TOTAL NUMBER OF CONTACTS

|                   |                                              |
|-------------------|----------------------------------------------|
| MARKING           | STANDARD                                     |
| PERFORMANCE LEVEL | G2/O = CONTACT AREA LEVEL2 / TERMINATION TIN |
| FLUX PROOF        | NO                                           |
| FIXING CLIP       | YES                                          |
| DIMENSIONS        | SD-85003-0002 SHT 4                          |

|                |                   |                         |
|----------------|-------------------|-------------------------|
| X              | G2/O              | c1,16                   |
| Y              | G2/O              | b1,16                   |
| Z              | G2/O              | a1,16                   |
| C              | G2/O              | c2-15                   |
| B              | G2/O              | b2-15                   |
| A              | G2/O              | a2-15                   |
| CONTACT SYMBOL | PERFORMANCE LEVEL | CONTACT POSITION NUMBER |

|                                                                                         |                                      |                                           |     |                                                         |                                                                                      |                                                                                                                                         |                                                                                                                           |                     |     |                                                                                                            |
|-----------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|-----|---------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------------------------------------------------------------------------------------------------------------|
| EC NO. I 2004-XXXX<br>DRAWN: S 09/09/03<br>CHK: G.L. 09/09/03<br>APPR: L. 09/09/03<br>B | QUALITY SYMBOLS<br>MAJOR<br>CRITICAL | GENERAL TOLERANCES*<br>(UNLESS SPECIFIED) |     | SCALE                                                   | DESIGN UNITS<br><input checked="" type="checkbox"/> MM <input type="checkbox"/> INCH | THIRD ANGLE<br>PROJECTION<br><input type="checkbox"/> MM <input checked="" type="checkbox"/> INCH<br><input type="checkbox"/> INCH ONLY | DIMENSIONS:<br><input type="checkbox"/> INCH <input type="checkbox"/> INCH<br><input checked="" type="checkbox"/> MM ONLY | SHT                 | REV |                                                                                                            |
|                                                                                         |                                      | 4 PLACES                                  | ±0. | ±.                                                      | DRAWN BY & DATE<br>N.S. 14/05/01                                                     |                                                                                                                                         |                                                                                                                           |                     |     | TITLE: 48POS MALE CONNECTOR ACCORDING<br>DIN 41612 STYLE C/2 CONTACTS<br>ARRANGEMENT (HIGH TEMP CONNECTOR) |
|                                                                                         |                                      | 3 PLACES                                  | ±0. | ±.                                                      | CHECKED BY & DATE<br>G.L. 14/05/01                                                   |                                                                                                                                         |                                                                                                                           |                     |     |                                                                                                            |
|                                                                                         |                                      | 2 PLACES                                  | ±0. | ±.                                                      | APPROVED BY & DATE<br>G.L. 14/05/01                                                  |                                                                                                                                         |                                                                                                                           |                     |     |                                                                                                            |
| 1 PLACE                                                                                 |                                      | ±0.                                       | ±.  | CAD FILENAME<br>SD-85003-7093.S0                        |                                                                                      | MATERIAL NO.<br>85003-7093                                                                                                              | DRAWING NO.<br>SD-85003-7093                                                                                              | SHEET NO.<br>1 OF 1 |     |                                                                                                            |
| ANGULAR ±                                                                               |                                      | *                                         |     | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS |                                                                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.       |                                                                                                                           |                     |     |                                                                                                            |