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Part Number:

0850037055

Status:

Active

Overview:

[din\\_41612](#)

Description:

2.54mm (.100") Pitch DIN 41612 C/2 Style Male Header, Right Angle, Through Hole, 1.27µm (50µ") Selective Gold (Au) Plating, 48 Circuits, without Mounting Clips, No Flux Proof, 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                       | No Mounting Clips. No Flux Proof. 5.4mm(.213") First-Mate-Last-BreakContacts. 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; Z:a1,a16 |
| Color - Resin                  | Natural                                                                                                     |
| Durability (mating cycles max) | 500                                                                                                         |
| 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                                                                                                     |
| Pitch - Term. Interface (in)   | 0.100 In                                                                                                    |

EU RoHS

China RoHS

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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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 (mm)   | 2.54 mm         |
| Plating min: Mating (μin)      | 50              |
| Plating min: Mating (μm)       | 1.27            |
| 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) |

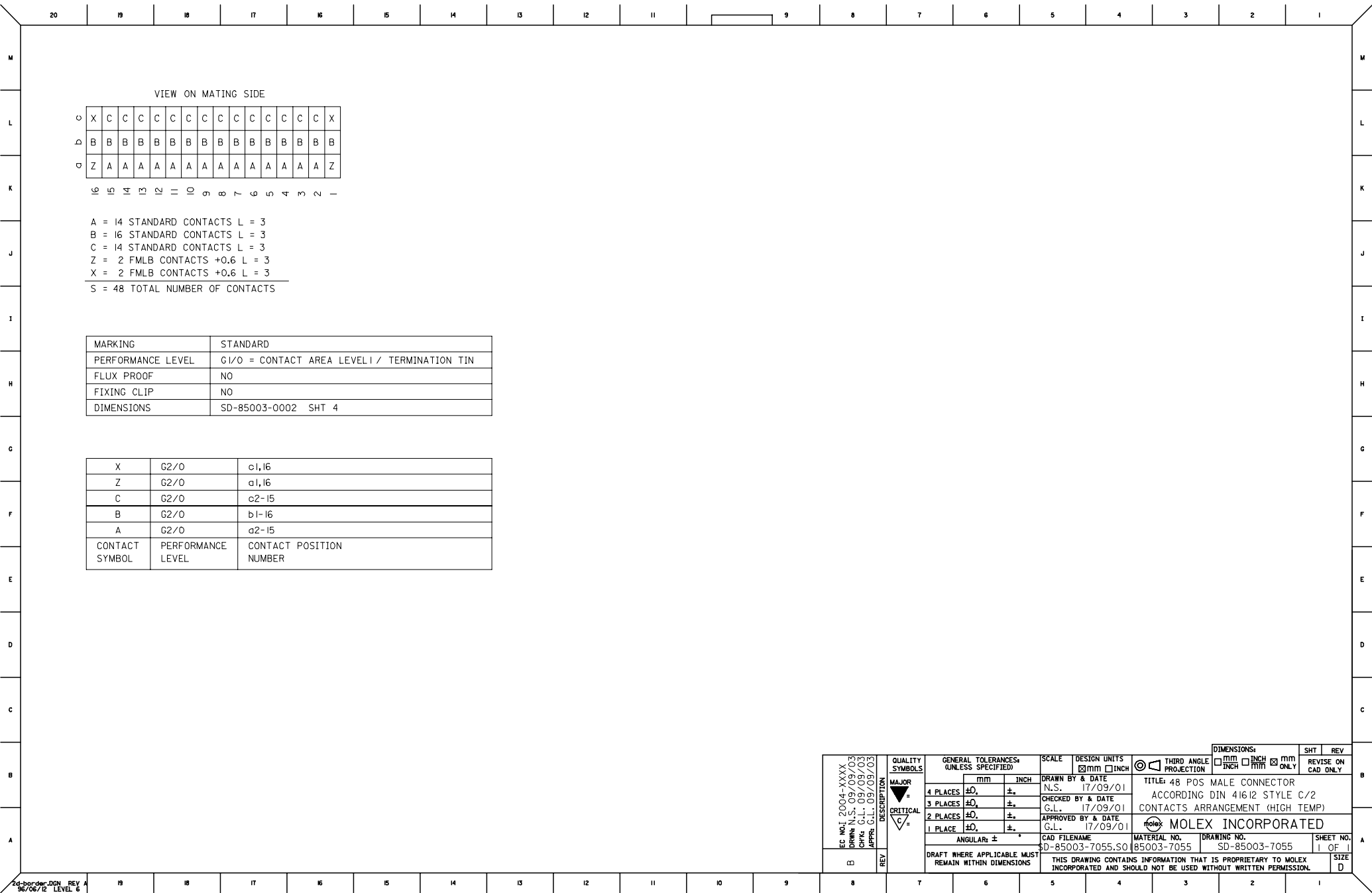
**Material Info**

**Reference - Drawing Numbers**

|                       |               |
|-----------------------|---------------|
| Product Specification | PS-85003-0001 |
| Sales Drawing         | SD-85003-7055 |

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VIEW ON MATING SIDE

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | C | C | C | C | C | C | C | C | C | C | C | C | C | X |
| B | B | B | B | B | B | B | B | B | B | B | B | B | B | B |
| 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  
B = 16 STANDARD CONTACTS L = 3  
C = 14 STANDARD CONTACTS L = 3  
Z = 2 FMLB CONTACTS +0.6 L = 3  
X = 2 FMLB CONTACTS +0.6 L = 3  
S = 48 TOTAL NUMBER OF CONTACTS

|                   |                                               |
|-------------------|-----------------------------------------------|
| MARKING           | STANDARD                                      |
| PERFORMANCE LEVEL | G1/O = CONTACT AREA LEVEL I / TERMINATION TIN |
| FLUX PROOF        | NO                                            |
| FIXING CLIP       | NO                                            |
| DIMENSIONS        | SD-85003-0002 SHT 4                           |

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

|                                                                                       |     |                                      |                                                         |      |                                                                                                                                   |                                                                                      |                                                                                                                 |                                                                                                                   |                                                                                                                             |                       |
|---------------------------------------------------------------------------------------|-----|--------------------------------------|---------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|
| EC NO.1 2004-XXXX<br>DRAWN N.S. 09/09/03<br>CHK'd G.L. 09/09/03<br>APPR G.L. 09/09/03 |     | 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 | DIMENSIONS:<br><input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> ONLY | SHT                                                                                                                         | REV                   |
|                                                                                       |     |                                      |                                                         |      |                                                                                                                                   |                                                                                      |                                                                                                                 |                                                                                                                   |                                                                                                                             | REVISE ON<br>CAD ONLY |
| B                                                                                     | REV | DESCRIPTION                          | mm                                                      |      | INCH                                                                                                                              |                                                                                      | DRAWN BY & DATE<br>N.S. 17/09/01                                                                                |                                                                                                                   | TITLE: 48 POS MALE CONNECTOR<br>ACCORDING DIN 41612 STYLE C/2<br>CONTACTS ARRANGEMENT (HIGH TEMP)<br><br>MOLEX INCORPORATED |                       |
|                                                                                       |     |                                      | 4 PLACES                                                | ±0.1 | ±0.1                                                                                                                              | CHECKED BY & DATE<br>G.L. 17/09/01                                                   |                                                                                                                 |                                                                                                                   |                                                                                                                             |                       |
|                                                                                       |     |                                      | 3 PLACES                                                | ±0.1 | ±0.1                                                                                                                              | APPROVED BY & DATE<br>G.L. 17/09/01                                                  |                                                                                                                 |                                                                                                                   |                                                                                                                             |                       |
|                                                                                       |     |                                      | 2 PLACES                                                | ±0.1 | ±0.1                                                                                                                              | CAD FILENAME<br>SD-85003-7055.S01                                                    |                                                                                                                 |                                                                                                                   |                                                                                                                             |                       |
|                                                                                       |     |                                      | 1 PLACE                                                 | ±0.1 | ±0.1                                                                                                                              | MATERIAL NO.<br>85003-7055                                                           |                                                                                                                 |                                                                                                                   |                                                                                                                             |                       |
|                                                                                       |     |                                      | ANGULAR ±                                               |      |                                                                                                                                   |                                                                                      | DRAWING NO.<br>SD-85003-7055                                                                                    | SHEET NO.<br>1 OF 1                                                                                               |                                                                                                                             |                       |
|                                                                                       |     |                                      | 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. |                                                                                      | SIZE<br>D                                                                                                       |                                                                                                                   |                                                                                                                             |                       |