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Part Number:

0850090737

Status:

Active

Overview:

din\_41612

Description:

2.54mm (.100") Pitch DIN 41612/EIC 603-2 Mixed Layout Connector, Male Style M, Right Angle, Through Hole, 0.6µm (24 µ") Selective Gold (Au), with 4 First-Mate-Last-Break Pins, 48 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-85003-0001 (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                      |
|--------------------------------|----------------------|
| <b>Agency Certification</b>    |                      |
| CSA                            | LR19980              |
| UL                             | E29179               |
| <b>General</b>                 |                      |
| Product Family                 | Backplane Connectors |
| Series                         | 85009                |
| Application                    | Backplane            |
| Comments                       | Mixed Layout         |
| Component Type                 | PCB Header           |
| Overview                       | din_41612            |
| Product Name                   | IEC 603-2/DIN 41612  |
| Style                          | M                    |
| <b>Physical</b>                |                      |
| Circuits (Loaded)              | 48                   |
| Circuits (maximum)             | 48                   |
| Circuits Detail                | 42 + 6               |
| Durability (mating cycles max) | 400                  |
| First Mate / Last Break        | Yes                  |
| Flammability                   | 94V-0                |
| Keying to Mating Part          | Yes                  |
| Number of Columns              | 14                   |
| 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                  | None                 |
| 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              |
| Temperature Range - Operating  | -55°C to +125°C      |
| <b>Electrical</b>              |                      |
| Current - Maximum per Contact  | 1.5A                 |
| Data Rate                      | 622.0 Mbps           |
| Voltage - Maximum              | 250V AC (RMS)        |

Material Info

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

85009Series

Mates With

85048 , 85056

Use With

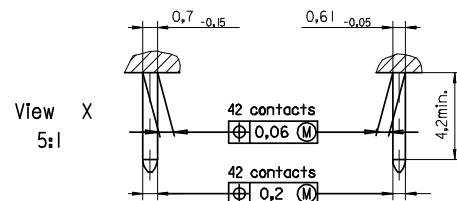
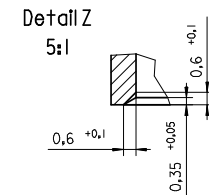
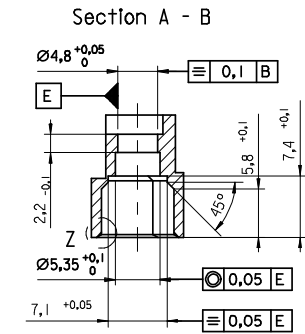
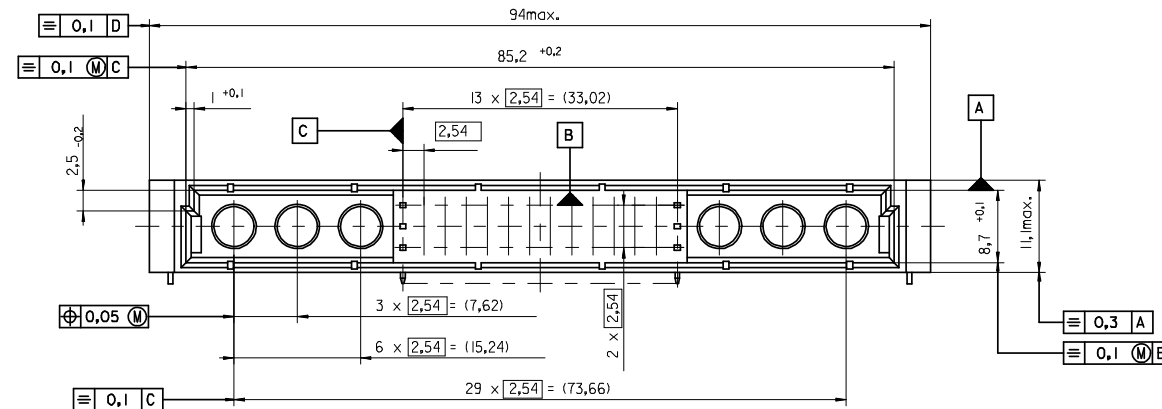
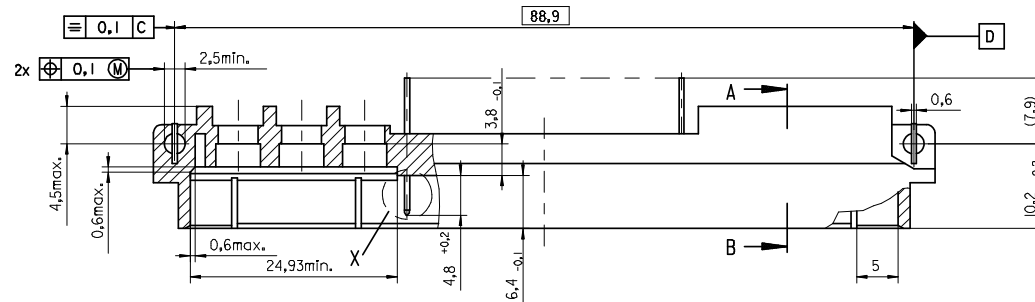
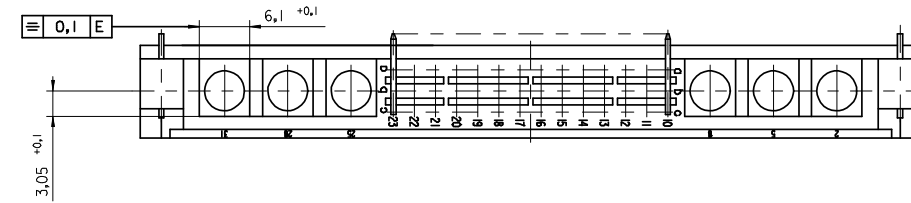
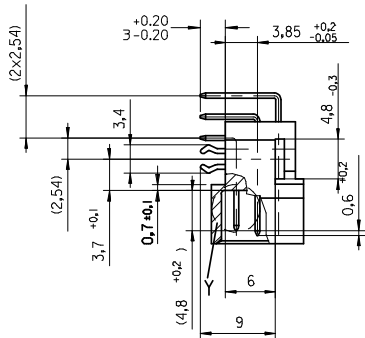
85023

**Reference - Drawing Numbers**

|                         |                                |
|-------------------------|--------------------------------|
| Packaging Specification | PK-85009-001                   |
| Product Specification   | PS-85003-0001                  |
| Sales Drawing           | SDA-85009-0002, SDA-85009-0737 |

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View Y  
5:1

ENTER DESCRIPTION  
EC NO: I2009-0039  
DRAWN: J  
CHKD: KPRASAD  
APPR: KPRASAD  
2008/07/28  
2008/07/31  
2008/08/11

QUALITY SYMBOLS  
▽=0  
▽=0  
DESCRIPTION  
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ± --- ± ---  
3 PLACES ± --- ± ---  
2 PLACES ± --- ± ---  
1 PLACE ± --- ± ---  
ANGULAR ± 2 °  
DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY  
DRAWN BY DATE  
CA 1995/06/12  
CHECKED BY DATE  
KN 1995/06/12  
APPROVED BY DATE  
KN 1995/06/12  
MATERIAL NO.  
-----  
SIZE  
A2

SCALE  
2:1  
DESIGN UNITS  
METRIC  
THIRD ANGLE  
PROJECTION  
42POS.  
MALE DIN CONNECTOR  
DIN 41612 STYLE M  
MOLEX INCORPORATED  
SDA-85009-0002  
SHEET NO.  
1 OF 3  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

## VIEW ON MATING SIDE

[illegible]

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- |   |   |    |          |          |       |
|---|---|----|----------|----------|-------|
| A | = | 12 | STANDARD | CONTACTS | L = 3 |
| B | = | 14 | STANDARD | CONTACTS | L = 3 |
| C | = | 12 | STANDARD | CONTACTS | L = 3 |
| Z | = | 2  | FMLB     | CONTACTS | L = 3 |
| X | = | 2  | FMLB     | CONTACTS | L = 3 |

S = 42 TOTAL NUMBER OF CONTACTS

|                    |                                              |
|--------------------|----------------------------------------------|
| Marking            | Standard                                     |
| Per-formance level | G2/0 = Contact area level2 / Termination tin |
| Flux proof         | no                                           |
| Fixing clip        | no                                           |
| Dimensions         | S0A-85009-0002 sht.1                         |
| Technical Data     | PS-85003-0001                                |

|                |                |                         |
|----------------|----------------|-------------------------|
| X              | G2/0           | c10,23                  |
| Z              | G2/0           | a10,23                  |
| C              | G2/0           | c11-22                  |
| B              | G2/0           | b10-23                  |
| A              | G2/0           | a11-22                  |
| Contact symbol | Perform. level | Contact position number |

|                                                                                      |     |                                 |             |                                     |                       |                                                                                   |                                   |             |            |                                                                                   |                                         |  |                           |  |     |      |
|--------------------------------------------------------------------------------------|-----|---------------------------------|-------------|-------------------------------------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------|-------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------|--|---------------------------|--|-----|------|
| C                                                                                    | LTR | REVISIONS                       |             | FOR PREVIOUS REVISIONS SEE MRJ LIST |                       | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 2^\circ$<br>INCH<br>METRIC |                                   |             | DRWG<br>BY | SIGN                                                                              | CAD/CAM PROJECT NAME<br>s8500907<br>s31 |  | REVISE ONLY ON CAD SYSTEM |  | SH. | REV. |
|                                                                                      |     | see ECN No. 2204<br>96/07/18 Cd | REVISIONS   | FOR PREVIOUS REVISIONS SEE MRJ LIST | 3 PLACE $\pm$ . $\pm$ |                                                                                   |                                   | CHK'D<br>BY | SIGN       | TITLE<br>42 pos. Male connector<br>acc. DIN 41612 style M<br>contacts arrangement |                                         |  |                           |  |     |      |
|                                                                                      |     |                                 |             |                                     | 2 PLACE $\pm$ . $\pm$ |                                                                                   |                                   |             |            |                                                                                   |                                         |  |                           |  |     |      |
|                                                                                      |     |                                 |             |                                     | 1 PLACE $\pm$ . $\pm$ |                                                                                   |                                   |             |            |                                                                                   |                                         |  |                           |  |     |      |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                              |     |                                 | APP'D<br>BY | SIGN                                | MOLEX® MOLEX EUROPE   |                                                                                   | SHEET NO. DATE<br>1 OF 1 95/06/08 |             |            |                                                                                   |                                         |  |                           |  |     |      |
| DESIGN DIMENSION <input type="checkbox"/> MM <input type="checkbox"/> IN.            |     |                                 |             |                                     | PART NO. DWG NO. SIZE |                                                                                   |                                   |             |            |                                                                                   |                                         |  |                           |  |     |      |
| EQUIVALENT DIMENSION <input type="checkbox"/> MM <input type="checkbox"/> IN.        |     |                                 | SCALE       |                                     | 85009-0737            |                                                                                   | SDA-85009-0737                    |             | A          |                                                                                   |                                         |  |                           |  |     |      |
| IF TWO DIMENSIONS ARE SHOWN THE UPPER IS<br>THE DESIGN DIMENSION, LOWER IS SECONDARY |     |                                 |             |                                     |                       |                                                                                   |                                   |             |            |                                                                                   |                                         |  |                           |  |     |      |