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**Part Number:** [0850039009](#)  
**Status:** **Active**  
**Overview:** [din\\_41612](#)  
**Description:** 2.54mm (.100") Pitch DIN 41612 C/2 Style Male Header, Right Angle, Through Hole, 0.60µm (24µ") Selective Gold (Au) Plating, 64 Circuits, with Mounting Clips, No Flux Proof, Lead free, High Temperature version

**Documents:**

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

**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 [din\\_41612](#)  
 Product Name IEC 603-2/DIN 41612  
 Style C

**Physical**

Circuits (Loaded) 64  
 Circuits (maximum) 96  
 Circuits Detail Standard Contacts at: A:a2-a31; C:c2-c31. First-Mate-  
 Last-Break Contacts at: X:c1,c32; Z:a1,a32  
 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  
 Pitch - Term. Interface (in) 0.100 In  
 Pitch - Term. 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](#)

Plating min: Mating ( $\mu\text{in}$ )	24
Plating min: Mating ( $\mu\text{m}$ )	0.60
Plating min: Termination ( $\mu\text{in}$ )	98
Plating min: Termination ( $\mu\text{m}$ )	2.5
Polarized to PCB	Yes
Stackable	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-85003-001
Sales Drawing	SD-85003-9009

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20 19 18 17 16 15 14 13 12 11 9 8 7 6 5 4 3 2 1

VIEW ON MATING SIDE

Q	X	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	X				
D																																
Q	Z	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Z					
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

A = 30 STANDARD CONTACTS L = 3  
 C = 30 STANDARD CONTACTS L = 3  
 Z = 2 FMLB CONTACTS +0.6 L = 3  
 X = 2 FMLB CONTACTS +0.6 L = 3  
 S = 64 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/O = CONTACT AREA LEVEL 2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	YES
DIMENSIONS	SD-85003-0001 SHT 6 (HIGH TEMPERATURE)

X	G2/O	ø1, 32
Z	G2/O	ø1, 32
C	G2/O	ø2-31
A	G2/O	ø2-31
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. I 2004-XXXX DRAWN S. 09/09/03 CHK G.L. 09/09/03 APPR G.L. 09/09/03	QUALITY SYMBOLS MAJOR $\nabla$ CRITICAL $\nabla$	GENERAL TOLERANCES: (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm 0.1$ $\pm$ 3 PLACES $\pm 0.1$ $\pm$ 2 PLACES $\pm 0.1$ $\pm$ 1 PLACE $\pm 0.1$ $\pm$	SCALE N.T.S. <input type="checkbox"/> mm <input checked="" type="checkbox"/> INCH DESIGN UNITS DRAWN BY & DATE S.S. 27/08/01 CHECKED BY & DATE G.L. 27/08/01 APPROVED BY & DATE G.L. 27/08/01	DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY THIRD ANGLE PROJECTION	SHT 1 REV REVISIONS ON CAD ONLY	
	TITLE: 96 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C CONTACTS ARRANGEMENT (HIGH TEMP CONNECTOR)		CAD FILENAME D-85003-9009.S01 MATERIAL NO. 85003-9009 DRAWING NO. SD-85003-9009		SHEET NO. 1 OF 1 SIZE D	
	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.			
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19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1