

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0850039039](#)  
**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, 20 Circuits, without Mounting Clips, No Flux Proof

**Documents:**

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

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family Backplane Connectors  
 Series [85003](#)  
 Application Backplane  
 Comments No Mounting Clips. No Flux Proof  
 Component Type PCB Header  
 Overview [din\\_41612](#)  
 Product Name IEC 603-2/DIN 41612  
 Style C/2

**Physical**

Circuits (Loaded) 20  
 Circuits (maximum) 48  
 Circuits Detail Standard Contacts at: A:a1,a3,a5...a13,a15,a16;  
 B:b14,b16; C:c1,c3,c5...c13,c15,c16  
 Color - Resin Gray  
 Durability (mating cycles max) 400  
 First Mate / Last Break No  
 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 Polyester  
 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  
 Plating min: Mating (µin) 32  
 Plating min: Mating (µm) 0.80

**EU RoHS** **China RoHS**

**Compliance Status**

**Not Reviewed**

**REACH SVHC**

**Not Reviewed**

**Halogen-Free**

**Status**

**Not Reviewed**

**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: Termination ( $\mu$ in)	98
Plating min: Termination ( $\mu$ 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	2.5A
Data Rate	622.0 Mbps
Voltage - Maximum	250V AC (RMS)

### **Material Info**

### **Reference - Drawing Numbers**

Sales Drawing	SD-85003-9039
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This document was generated on 05/17/2010

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7                      6                      5                      4                      3                      2                      1




VIEW ON MATING SIDE

U	C	C		C		C		C		C		C		C		C
D	B		B													
Q	A	A		A		A		A		A		A		A		A
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

A = 9 STANDARD CONTACTS L = 3  
 B = 2 STANDARD CONTACTS L = 3  
 C = 9 STANDARD CONTACTS L = 3  
 S = 20 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85003-0002 SHT 1

C	G2/0	c1,3,5....13, c15,16
B	G2/0	b14, b16
A	G2/0	a1,3,5....13, a15,16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO: 12004-0325 DRWN: SHIVASHAZ004/02/23 CHKD: SUDHIR 2004/02/23 APPR: GJLOWE 2004/04/26	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY			
		 = 0   = 0	mm	INCH	DIMENSION STYLE MM ONLY		TITLE				
			4 PLACES	± ---	± ---	DRAWN BY	DATE	48 POS MALE CONNECTOR ACC. DIN 41612 STYLE C/2 CONTACTS ARRANGEMENT			
			3 PLACES	± ---	± ---	SHIVA	2004/02/23				
2 PLACES	± ---	± ---	CHECKED BY	DATE	 MOLEX INCORPORATED						
1 PLACE	± ---	± ---	SUDHIR	2004/02/23							
ANGULAR ± --- °			DRAFT WHERE APPLICABLE		APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			MUST REMAIN WITHIN DIMENSIONS		GJLOWE	2004/02/23	85003-9039	SD-85003-9039	1 OF 1		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

6                      5                      4                      3                      2                      1