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**Part Number:** **0850037029**  
**Status:** **Active**  
**Overview:** [din\\_41612](#)  
**Description:** 2.54mm (.100") Pitch DIN 41612 C Style Male Header, Right Angle, Through Hole, 0.80µm (32µ") Selective Gold (Au) Plating, 96 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 [din\\_41612](#)  
 Product Name IEC 603-2/DIN 41612  
 Style C

**Physical**

Circuits (Loaded) 96  
 Circuits (maximum) 96  
 Circuits Detail Standard Contacts at: A:a2-a31; B:b2-b31, C:c2-  
 c31 . First-Mate-Last- VBreak Contacts at: X:c1,c32;  
 Y:b1,b32; 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

**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 ( $\mu$ in)	32
Plating min: Mating ( $\mu$ m)	0.80
Plating min: Termination ( $\mu$ in)	200
Plating min: Termination ( $\mu$ m)	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-85003-001
Product Specification	PS-85003-0001
Sales Drawing	SD-85003-7029

This document was generated on 05/17/2010

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VIEW ON MATING SIDE

⊙	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	C	C	X		
⊙	Y	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	Y		
⊙	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	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	-

A = 30 STANDARD CONTACTS L = 3  
 B = 30 STANDARD CONTACTS L = 3  
 C = 30 STANDARD CONTACTS L = 3  
 Z = 2 FMLB CONTACTS +0.6 L = 3  
 Y = 2 FMLB CONTACTS +0.6 L = 3  
 X = 2 FMLB CONTACTS +0.6 L = 3  
 S = 96 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/O = CONTACT AREA LEVEL 2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	YES
DIMENSIONS	E-85003-0006 SHT I-2

X	G2/O	c1,32
Y	G2/O	b1,32
Z	G2/O	a1,32
C	G2/O	c2-31
B	G2/O	b2-31
A	G2/O	a2-31
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

SL. NO.	DESCRIPTION	CONTACT SYMBOL	PART NUMBER	QTY
1	HOUSING		36521-0001	1
2	TERMINAL	A	36527-0005	30
3	TERMINAL	B	36527-0005	30
4	TERMINAL	C	36527-0005	30
5	TERMINAL	Z	36527-0011	2
6	TERMINAL	Y	36527-0011	2
7	TERMINAL	Z	36527-0011	2
8	FIXING CLIP	- - -	36526-0002	2

EC NO. I 2004-XXXX DRAWN N.S. 09/09/03 CHK'd G.L. 09/09/03 APPR. G.L. 09/09/03	QUALITY SYMBOLS MAJOR $\nabla$ <sub>1</sub> CRITICAL $\nabla$ <sub>2</sub>	GENERAL TOLERANCES: (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>MM</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±0.</td> <td>±.</td> </tr> <tr> <td>3 PLACES</td> <td>±0.</td> <td>±.</td> </tr> <tr> <td>2 PLACES</td> <td>±0.</td> <td>±.</td> </tr> <tr> <td>1 PLACE</td> <td>±0.</td> <td>±.</td> </tr> </table>		MM	INCH	4 PLACES	±0.	±.	3 PLACES	±0.	±.	2 PLACES	±0.	±.	1 PLACE	±0.	±.	SCALE <input checked="" type="checkbox"/> MM <input type="checkbox"/> INCH	DESIGN UNITS <input checked="" type="checkbox"/> MM <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION <input checked="" type="checkbox"/> THIRD ANGLE <input type="checkbox"/> FIRST ANGLE	DIMENSIONS: <input type="checkbox"/> MM <input type="checkbox"/> INCH <input checked="" type="checkbox"/> MM ONLY	SHT   REV REVISE ON CAD ONLY
		MM	INCH																			
	4 PLACES	±0.	±.																			
	3 PLACES	±0.	±.																			
2 PLACES	±0.	±.																				
1 PLACE	±0.	±.																				
DRAWN BY & DATE N.S. 09/09/03	CHECKED BY & DATE G.L. 09/09/03		APPROVED BY & DATE G.L. 09/09/03		TITLE: 96 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C CONTACTS ARRANGEMENT (HIGH TEMP CONNECTOR)																	
CAD FILENAME E-85003-7029.S01		MATERIAL NO. 85003-7029		DRAWING NO. E-85003-7029		SHEET NO. 1 OF 1																
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.																				