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**Part Number:** **0850033108**  
**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, 48 Circuits, without Mounting Clips, No Flux Proof

**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. 4.2mm(.165") Last-Mate-First- Break Contacts. 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/2

**Physical**

Circuits (Loaded) 48  
 Circuits (maximum) 48  
 Circuits Detail Standard Contacts at: A:a2-a8,a10-a15; B:b1-b16; C:c1-c4,c6-c16. Last-Mate-First-Break Contacts at: D:a16. First-Mate-Last-Break Contacts at:X:c5; Z:a1,a9  
 Color - Resin Gray  
 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 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

**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

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)	98
Plating min: Termination ( $\mu$ m)	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-85003-3108

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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

○	C	C	C	C	C	C	C	C	C	C	X	C	C	C	C
△	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
○	D	A	A	A	A	A	Z	A	A	A	A	A	A	A	Z

16 15 14 13 12 = 11 10 9 8 7 6 5 4 3 2 -

A = 13 STANDARD CONTACTS L = 3  
 B = 16 STANDARD CONTACTS L = 3  
 C = 15 STANDARD CONTACTS L = 3  
 D = 1 LMFB CONTACTS -0.6 L = 3  
 Z = 2 FMLB CONTACTS +0.6 L = 3  
 X = 1 FMLB CONTACTS +0.6 L = 3  
 S = 48 TOTAL NUMBER OF CONTACTS

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

X	G2/O	c5
Z	G2/O	a1,9
D	G2/O	a16
C	G2/O	c1-4,6-16
B	G2/O	b1-16
A	G2/O	a2-8,10-15
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. I 2004-XXXX DRAWN: S. 09/09/03 CHK: G.L. 09/09/03 APPR: L. 09/09/03	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED) 4 PLACES $\pm 0.1$ mm $\pm 0.004$ INCH 3 PLACES $\pm 0.2$ mm $\pm 0.008$ INCH 2 PLACES $\pm 0.3$ mm $\pm 0.012$ INCH 1 PLACE $\pm 0.4$ mm $\pm 0.016$ INCH	SCALE <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	DRAWN BY & DATE S.S. 14/09/1999 CHECKED BY & DATE G.L. 14/09/1999 APPROVED BY & DATE G.L. 14/09/1999	DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY THIRD ANGLE PROJECTION <input checked="" type="checkbox"/> <input type="checkbox"/> FIRST ANGLE TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C/2 CONTACTS ARRANGEMENT MOLEX INCORPORATED	SHEET NO. 1 OF 1 SIZE D
	CAD FILENAME SD-85003-3108.S01	MATERIAL NO. 85003-3108	DRAWING NO. SD-85003-3108	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		
	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.			
	REV B		DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY THIRD ANGLE PROJECTION <input checked="" type="checkbox"/> <input type="checkbox"/> FIRST ANGLE TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C/2 CONTACTS ARRANGEMENT MOLEX INCORPORATED			

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1