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Part Number: [0850031859](#)
Status: **Active**
Overview: [din_41612](#)
Description: 2.54mm (.100") Pitch DIN 41612 C/2 Style Male Header, Right Angle, Through Hole, 1.27µm (50µ") Selective Gold (Au) Plating, 48 Circuits, with Mounting Clips, No Flux Proof, Lead free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-85003-0001 \(PDF\)](#)

Agency Certification

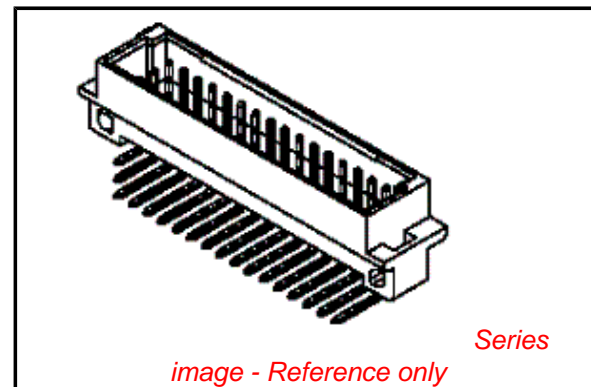
CSA LR19980
 UL E29179

General

Product Family Backplane Connectors
 Series [85003](#)
 Application Backplane
 Comments With Mounting Clips. No Flux Proof. 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 Contact Positions: A:a1-a16; B:b1-b16; C:c1-c16
 Color - Resin Gray
 Durability (mating cycles max) 500
 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
 Pitch - Term. Interface (in) 0.100 In



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
 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 (mm)	2.54 mm
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.27
Plating min: Termination (µin)	98
Plating min: Termination (µm)	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

Packaging Specification	PK-85003-002
Product Specification	PS-85003-0001
Sales Drawing	SD-85003-1859

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VIEW ON MATING SIDE

○	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
△	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
○	A	A	A	A	A	A	A	A	A	A	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 = 16 STANDARD CONTACTS L = 3
 B = 16 STANDARD CONTACTS L = 3
 C = 16 STANDARD CONTACTS L = 3
 S = 48 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G1/O = CONTACT AREA LEVEL1 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	YES
DIMENSIONS	SD-85003-0011 SHT I-I

C	G1/O	c1-16
B	G1/O	b1-16
A	G1/O	a1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

RoHS COMPLIANT

ENTER DESCRIPTION ELC.MC1.12006-0807 DRWNGSATTI/MARAD 2006/05/05 CHKD:SSUDHIR 2006/05/08 APPR:SSUDHIR 2006/05/08	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ±---± 3 PLACES ±---± 2 PLACES ±---± 1 PLACE ±---±	.mm INCH ±---± ±---± ±---± ±---±	DRAWN BY SHANKAR	DATE 2006/05/04	TITLE 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE C/2 CONTACTS ARRANGEMENT			
		ANGULAR ±---°		CHECKED BY SSUDHIR	DATE 2006/05/04	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY SSUDHIR	DATE 2006/05/04	MATERIAL NO. 85003-1859	DOCUMENT NO. SD-85003-1859	SHEET NO. 1 OF 1	

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