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Part Number:

0850039002

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, 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	No Mounting Clips. No Flux Proof. 5.4mm(.213") First-Mate-Last-BreakContacts. 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:a1,a16; C:c1,c16. Last-Mate-First-Break Contacts at: X:c2-c15; Y:b1-b16; Z:a2-a15
Color - Resin	Natural
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	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

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 (μin)	32
Plating min: Mating (μm)	0.80
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)

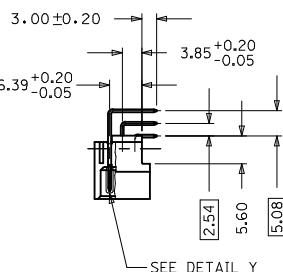
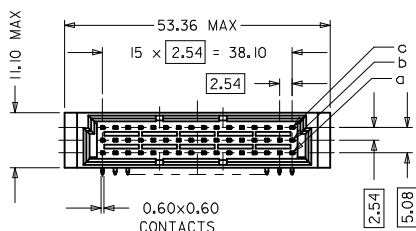
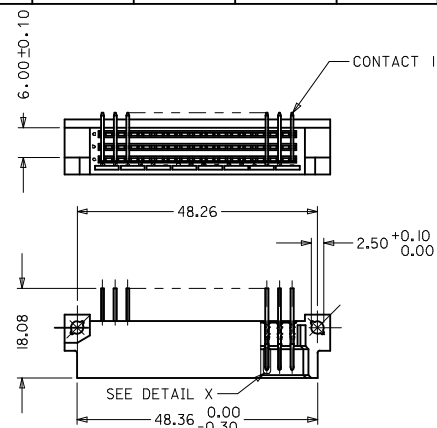
Material Info

Reference - Drawing Numbers

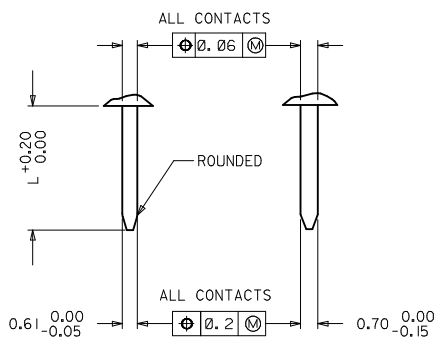
Packaging Specification	PK-85003-002
Sales Drawing	SD-85003-0002, SD-85003-9002

This document was generated on 05/17/2010

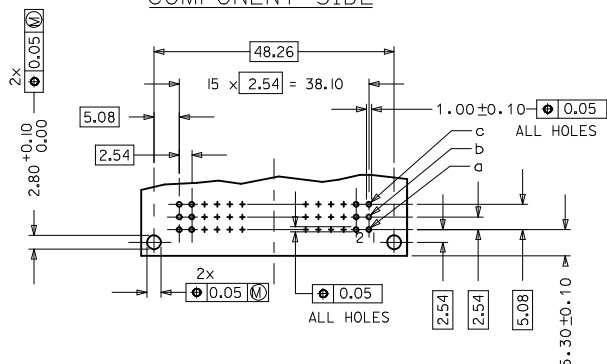
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DETAILY DETAILX



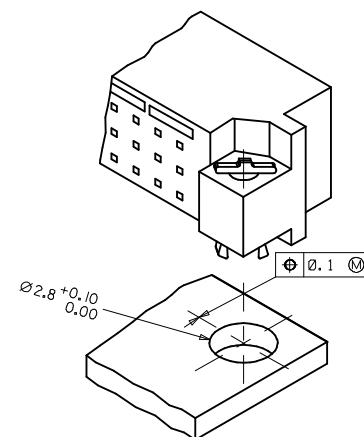
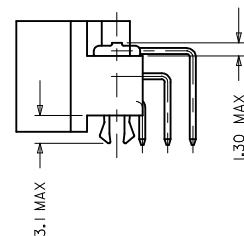
RECOMMENDED PCB LAYOUT
COMPONENT SIDE



PRE MATING CONTACTS	5.4
NORMAL CONTACTS	4.8
	L

WITH MOUNTING CLIPS

8:1



NOTES:

- 1) MATERIALS: THERMX (PCT), GLASS FILLED, UL94V-0, COLOUR: NATURAL
TERMINAL - BRASS
MOUNTING CLIP: STEEL

- 2) FINISH: TERMINAL:- CONTACT AREA

1. PERFORMANCE LEVEL 1: SELECTIVE GOLD (Au), THICKNESS = 1.1 MICROMETER OVER NICKEL, THICKNESS = 1.25 MICROMETER
 2. PERFORMANCE LEVEL 2: SELECTIVE GOLD (Au), THICKNESS = 0.6 MICROMETER OVER NICKEL, THICKNESS = 1.25 MICROMETER
 3. PERFORMANCE LEVEL 3: SELECTIVE GOLD (Au), THICKNESS = 0.3 MICROMETER OVER NICKEL, THICKNESS = 1.25 MICROMETER
- TERMINATION AREA:
SELECTIVE TIN, THICKNESS = 2.5 MICROMETER
OVER NICKEL, THICKNESS = 1.25 MICROMETER OVERALL

- 3) MOUNTING CLIP:-

- TIN (Sn), THICKNESS = 5-10 MICROMETER,
OVER NICKEL (Ni), THICKNESS = 2.5 MICROMETER

- 4) FOR NON MOUNTING CLIP OPTION, CONNECTOR TO BE SECURED WITH RIVETS: 2 TUBULAR RIVETS 2.5 x 0.3 ... DIN 7340

- SCREWS: 2 CHEESEHEAD SCREWS M2.5 x ... DIN 84 AND 2 HEXAGONAL NUTS M2.5 DIN 934

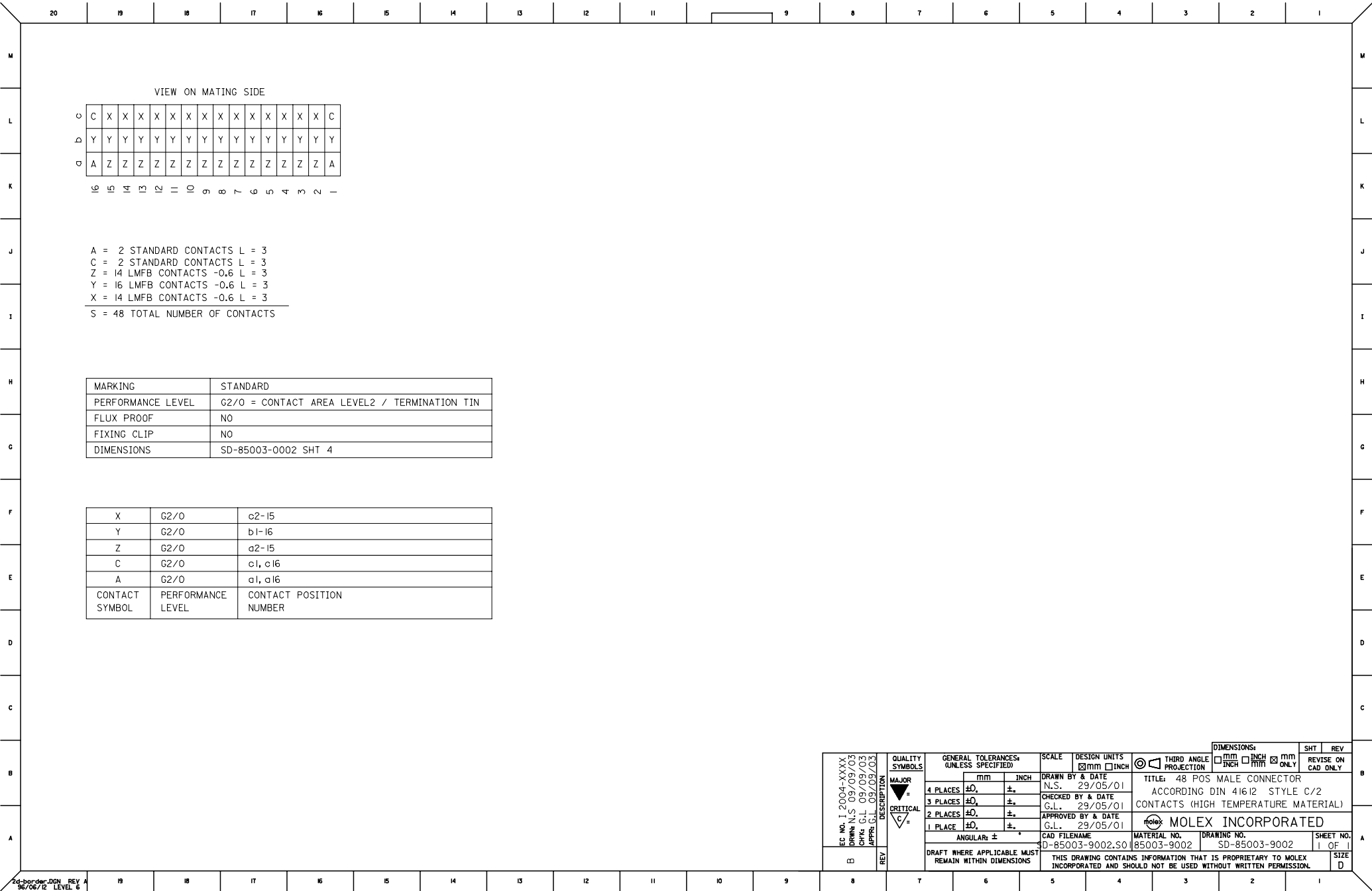
- 5) STANDARD MARKING: MOLEX, MATERIAL NUMBER, BATCH CODE,

- 6) CUT FACE OF TIP WITHOUT PLATING PERMITTED

- 7) PRODUCT SPECIFICATION PS : 85003-0001

RoHS COMPLIANT

EC NO: 12007-0172 DRAWN BY: JAYENG CHKD BY: SSUHIR APPR: KRASAO REV: 2008/06/07 2008/06/19 2009/01/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± 0.05 ± --- 3 PLACES ± 0.05 ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.15 ± --- ANGULAR ± 2 °	DIMENSION STYLE MM ONLY DRAWN BY: NS DATE: 2001/05/14 CHECKED BY: GJLOWE DATE: 2001/05/14 APPROVED BY: GJLOWE DATE: 2001/05/14 MATERIAL NO. DOCUMENT NO.	SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE C/2 CONTACTS MOLEX INCORPORATED	SHEET NO. 4 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



VIEW ON MATING SIDE

C	X	X	X	X	X	X	X	X	X	X	X	X	X	C
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A

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

A = 2 STANDARD CONTACTS L = 3
C = 2 STANDARD CONTACTS L = 3
Z = 14 LMFB CONTACTS -0.6 L = 3
Y = 16 LMFB CONTACTS -0.6 L = 3
X = 14 LMFB CONTACTS -0.6 L = 3

S = 48 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/O = CONTACT AREA LEVEL2 / TERMINATION TJN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85003-0002 SHT 4

X	G2/O	c2-15
Y	G2/O	b1-16
Z	G2/O	a2-15
C	G2/O	c1, c16
A	G2/O	a1, a16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

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 CRITICAL	GENERAL TOLERANCES* (UNLESS SPECIFIED)		SCALE	DESIGN UNITS ☒ mm ☐ INCH		THIRD ANGLE PROJECTION ☐ mm ☐ INCH ☒ ONLY	DIMENSIONS: ☐ mm ☐ INCH ☒ ONLY		SHT	REV	
			4 PLACES ± 0.1 ± 0.1		DRAWN BY & DATE N.S. 29/05/01			TITLE: 48 POS MALE CONNECTOR				1	OF 1
			3 PLACES ± 0.1 ± 0.1		CHECKED BY & DATE G.L. 29/05/01			ACCORDING DIN 41612 STYLE C/2					
			2 PLACES ± 0.1 ± 0.1		APPROVED BY & DATE G.L. 29/05/01			CONTACTS (HIGH TEMPERATURE MATERIAL)					
1 PLACE ± 0.1 ± 0.1													
ANGULAR $\pm$		CAD FILENAME D-85003-9002.S01		MATERIAL NO. 85003-9002		DRAWING NO. SD-85003-9002		SHEET NO. 1 OF 1		SIZE D			
B		REV	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.						