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Part Number: 0850039055
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 C/2 Style Male Header, Right Angle, Through Hole, 48 Circuits, without Mounting Clips, No Flux Proof, Lead free

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-85003-0001 (PDF)

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)	48
Circuits (maximum)	48
Circuits Detail	First-Mate-Last-Break Contacts at: A:a1-a16; B:b1-b16; C:c3- c14, X:x1,x2,x15,x16
Color - Resin	Gray
Durability (mating cycles max)	400
First Mate / Last Break	Yes
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	Tray
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)	24
Plating min: Mating (µm)	0.60
Plating min: Termination (µin)	98
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-55°C to +125°C

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

Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	1A
Data Rate	622.0 Mbps
Voltage - Maximum	250V AC (RMS)

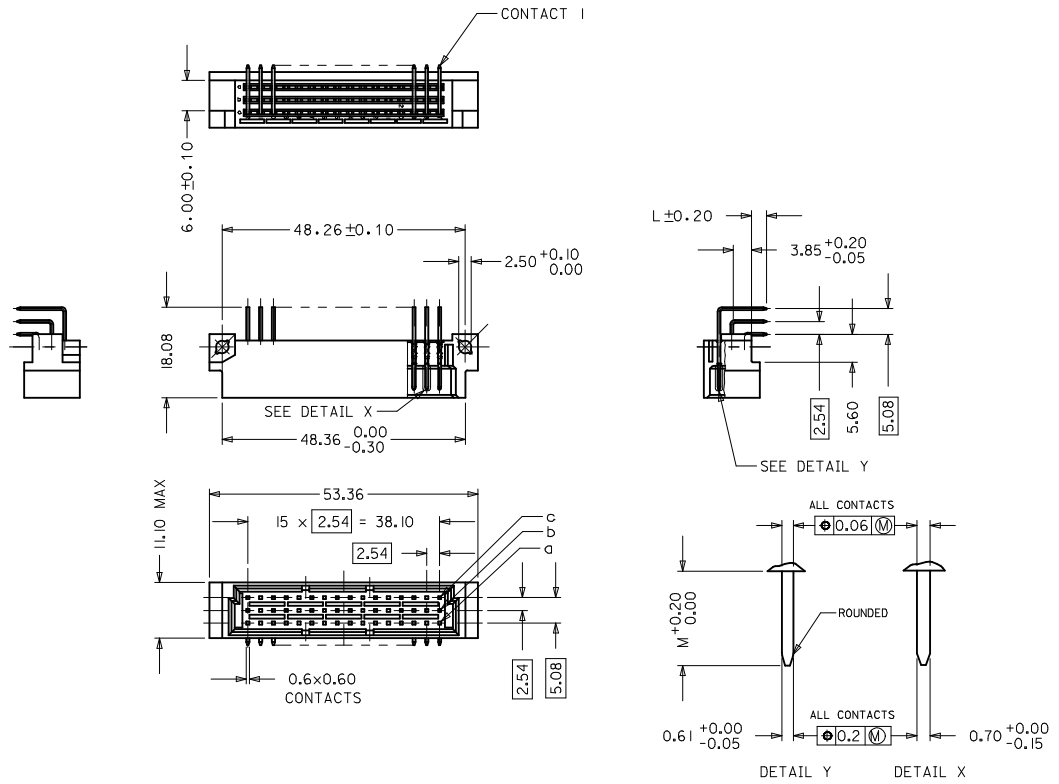
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-85003-002
Product Specification	PS-85003-0001
Sales Drawing	SD-85003-0011, SD-85003-9055

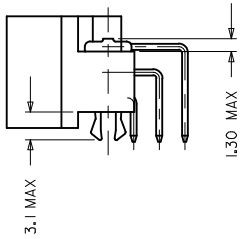
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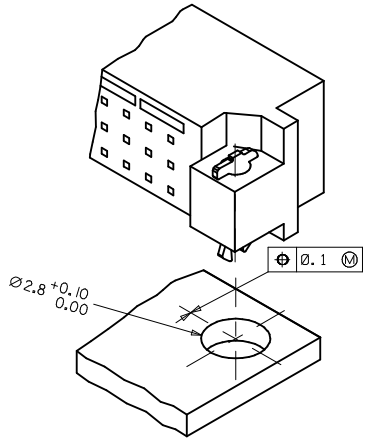
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WITH MOUNTING CLIPS

8:1

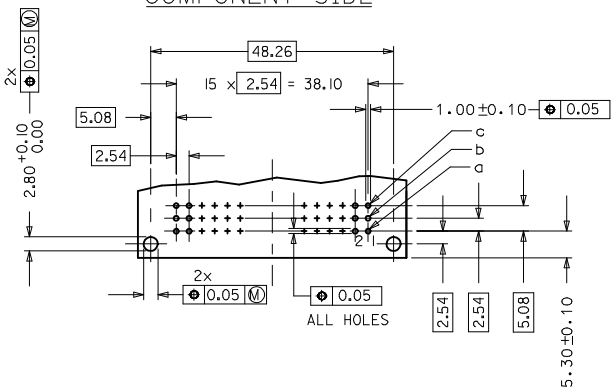




NOTES:

1) MATERIALS: THERMOPLASTIC POLYESTER,GLASS FILLED, UL94V-0.COLOUR: PEBBLE GREY RAL 7032
   TERMINAL - BRASS
   MOUNTING CLIP: STEEL
2) FINISH: 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

RECOMMENDED PCB LAYOUT
COMPONENT SIDE



LMFB CONTACTS	4.2
FMLB CONTACTS	5.4
NORMAL CONTACTS	4.8
	M

RoHS COMPLIANT

EC NO: I2007-0172	2008/06/07	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS / THIRD ANGLE PROJECTION
DRWN:JAYENGG	2008/06/19	▼=0			MM ONLY	2:1	METRIC
CHKD:SSUDHIR	2009/01/22	C▽=0	mm / INCH		DRAWN BY / DATE	TITLE	
APPR:KPRASAD	DESCRIPTION		4 PLACES ± --- / ± ---		SHANKAR 2006/03/03	48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE C/2 CONTACTS	
REV			3 PLACES ± 0.05 / ± ---		CHECKED BY / DATE		
A1			2 PLACES ± 0.1 / ± ---		SSUDHIR 2006/03/03		
			1 PLACE ± 0.15 / ± ---		APPROVED BY / DATE	molex MOLEX INCORPORATED	
			ANGULAR ± 2 °		SSUDHIR 2006/03/03		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. ----	DOCUMENT NO. SD-85003-0011	SHEET NO. 1 OF 1

SIZE A1 — THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

VIEW ON MATING SIDE

	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
c	X	X	C	C	C	C	C	C	C	C	C	C	C	C	X	X
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 = 16 FMLB CONTACTS L = 3.0
B = 16 FMLB CONTACTS L = 3.0
C = 12 FMLB CONTACTS L = 3.0
X = 4 FMLB CONTACTS 0.8+/-0.1 L = 3.0

S = 48 TOTAL NUMBER OF CONTACTS

CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER
X	G2/0	c1,2,15,16
C	G2/0	c3-14
B	G2/0	b1-16
A	G2/0	a1-16

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	E-85003-0011 SHT 1-2

ENTER DESCRIPTION
EC NO: 12008-0436 2008/05/14
DRWN:SJ 2008/05/14
CH'KD:KPRASAD 2008/05/14
APPR:KPRASAD
DESCRIPTION
A
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	SJ	2008/02/13
CHECKED BY	KPRASAD	2008/02/13
APPROVED BY	KPRASAD	2008/02/13

TITLE: 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE C CONTACTS ARRANGEMENT

MOLEX INCORPORATED

MATERIAL NO.: 850039055
DOCUMENT NO.: SD-85003-9055
SHEET NO.: 1 OF 00
SIZE: A3

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