This document was generated on 05/17/2010

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Part Number: 0850039028
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 C Style Male Header, Right Angle, Through Hole, 0.60µm (24µ") Selective Gold (Au) Plating, 32 Circuits, without Mounting Clips, No Flux Proof, Lead free

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- 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)	32
Circuits (maximum)	96
Circuits Detail	Standard Contacts at: A:a4,a6,a8..a30; C:c4,c6,c8...c30. First-Mate-Last-Break Contacts at: Z:a2,a32,c2,c32
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
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)	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
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A
Data Rate	622.0 Mbps
Voltage - Maximum	250V AC (RMS)

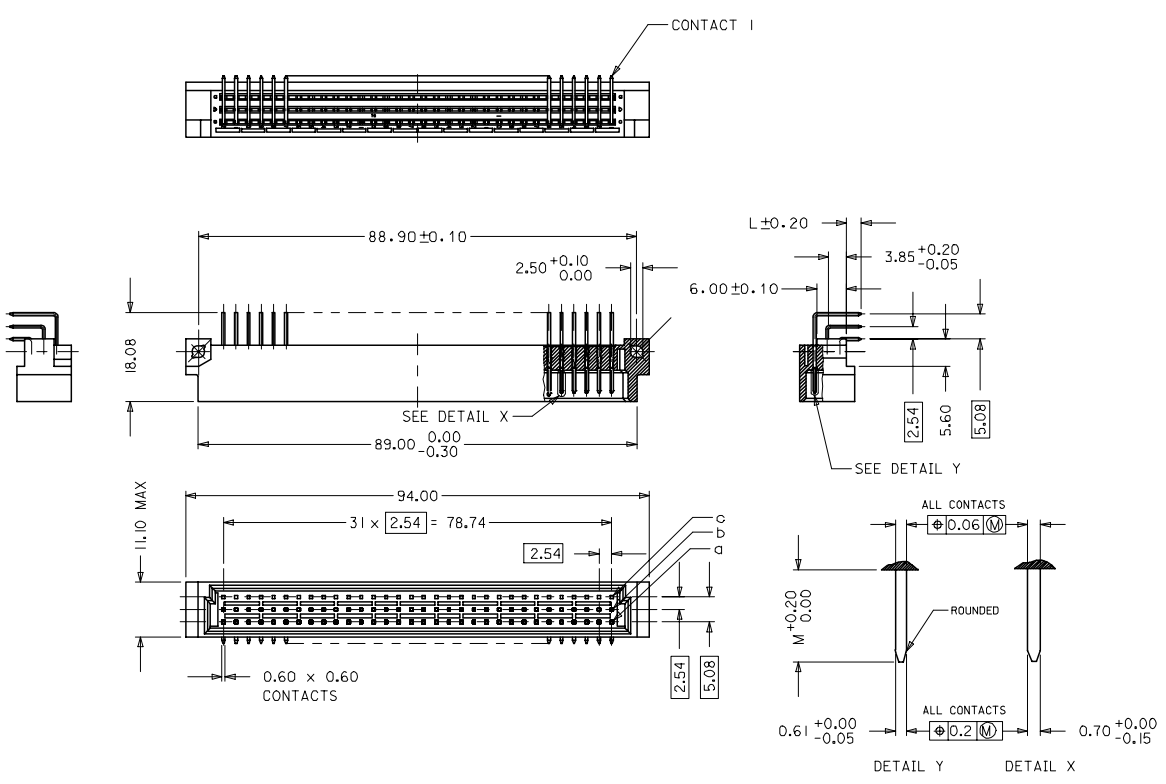
Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	260

Material Info

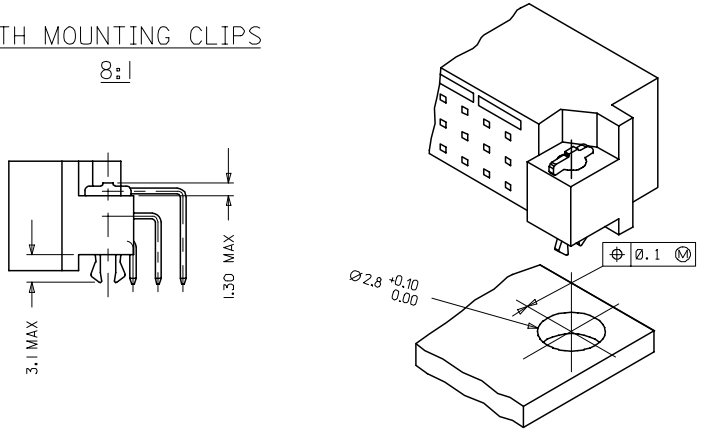
Reference - Drawing Numbers

Sales Drawing	SD-85003-0001, SD-85003-9028



WITH MOUNTING CLIPS

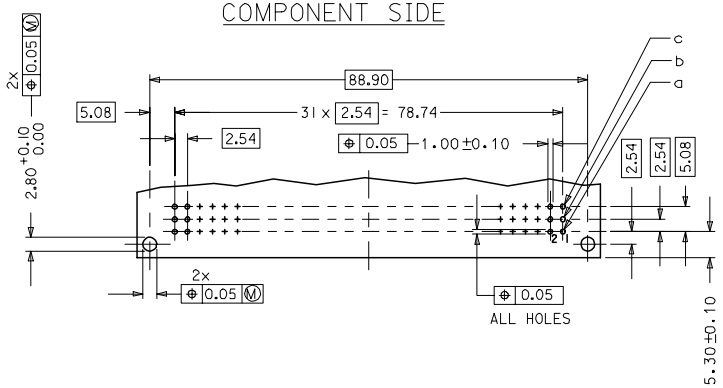
8:1



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 MICROMETEP
   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

ENTER DESCRIPTION
EC NO: I2007-0193 2007/01/08
DRAWN:SURENG 2007/01/08
CHKD:SSUDHIR 2007/01/09
APPR:KPRASAD
DESCRIPTION
REV D1

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.05	± ---
2 PLACES	± 0.1	± ---
1 PLACE	± 0.15	± ---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	SS	1999/09/09
CHECKED BY	GJLOWE	1999/09/09
APPROVED BY	GJLOWE	1999/09/09

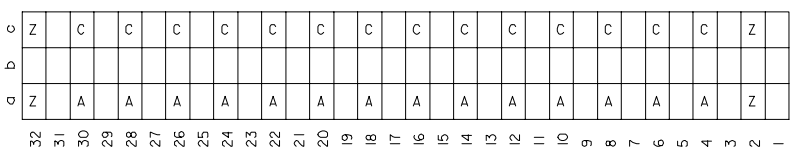
TITLE: ASSEMBLY, DIN 41612 C MALE 96 POS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-85003-0001
SHEET NO.: 1 OF 12
SIZE: A1

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

VIEW ON MATING SIDE



A = 14 STANDARD CONTACTS L = 3
C = 14 STANDARD CONTACTS L = 3
Z = 4 FMLB CONTACTS +0.6 L = 3

S = 32 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85003-0001 SHT 1

Z	G2/0	a2,32 c2,32
C	G2/0	a4,6,8....30
A	G2/0	a4,6,8....30
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO: 2004-XXXX
DRWN: N.S. 09/09/03
CHK: G.L. 09/09/03
APPR: G.L. 09/09/03
DESCRIPTION
B
REV

QUALITY SYMBOLS
MAJOR =
CRITICAL (C) =

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.	±.
3 PLACES	±0.	±.
2 PLACES	±0.	±.
1 PLACE	±0.	±.
ANGULAR: ± °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE
DESIGN UNITS ☒mm ☐INCH
DRAWN BY & DATE N.S. 24/12/02
CHECKED BY & DATE G.L. 24/12/02
APPROVED BY & DATE G.L. 24/12/02
CAD FILENAME SD-850039028.S01

THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY

TITLE: 96 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C CONTACTS ARRANGEMENT

molex MOLEX INCORPORATED

MATERIAL NO. 85003-9028
DRAWING NO. SD-85003-9028
SHEET NO. 1 OF 1
SIZE D

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2d-border.DGN REV A
96/06/12 LEVEL 6