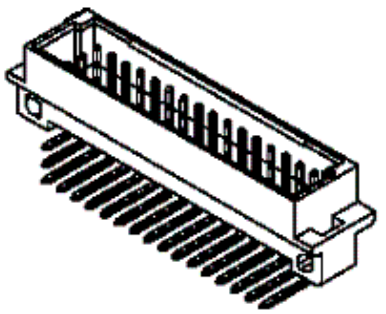
This document was generated on 05/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0850031548
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 Header, Style C, Right Angle, Through Hole, 0.6µm (24µ") Selective Gold (Au), 96 Circuits, Lead free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-85003-0001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Backplane Connectors
Series	85003
Application	Daughtercard
Component Type	PCB Header
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	C

Physical

Circuits (Loaded)	96
Circuits (maximum)	96
Durability (mating cycles max)	400
First Mate / Last Break	Yes
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	Yes
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
Polarized to PCB	Yes
Stackable	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

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

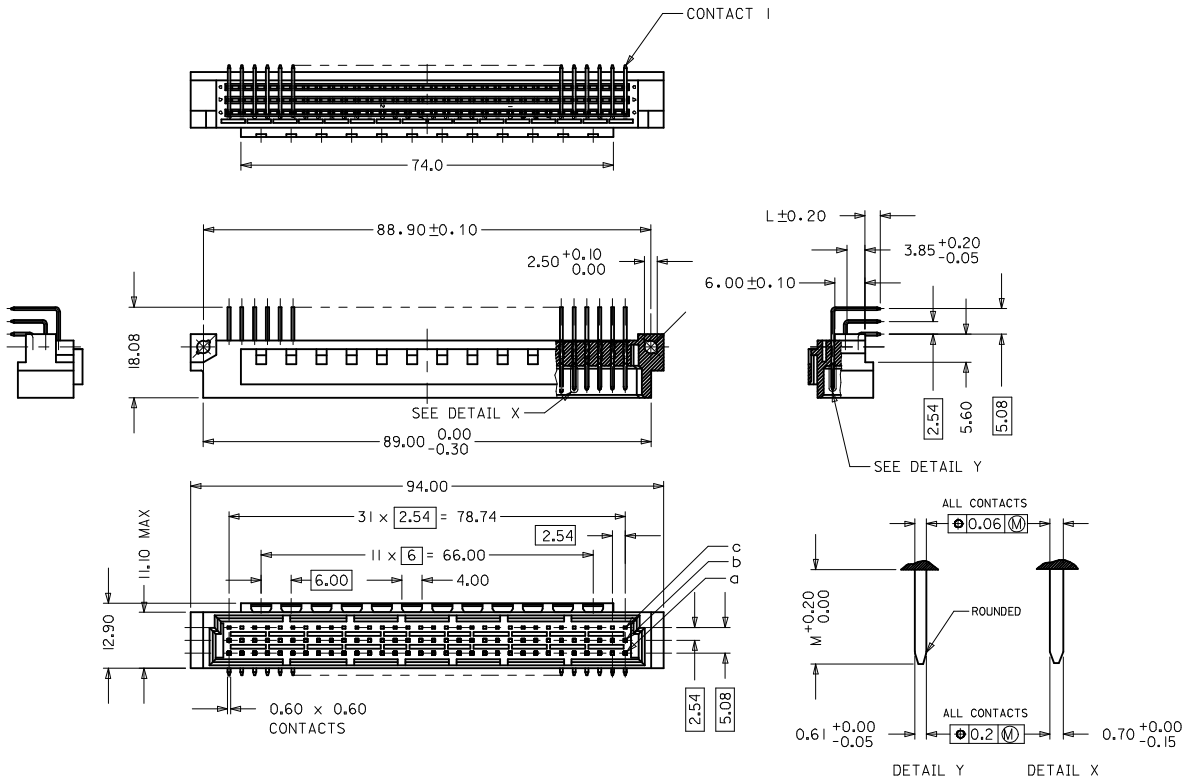
Mates With
85042 DIN 41612 Receptacle. 85052 DIN 41612 Header

Reference - Drawing Numbers

Packaging Specification	PK-85003-001
Product Specification	PS-85003-0001
Sales Drawing	SD-85003-0001, SD-85003-1548

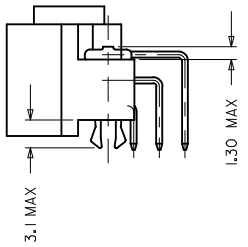
This document was generated on 05/17/2010

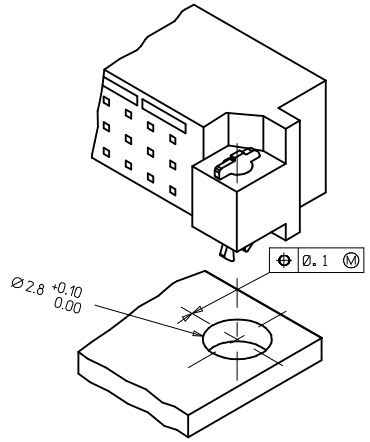
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



WITH MOUNTING CLIPS

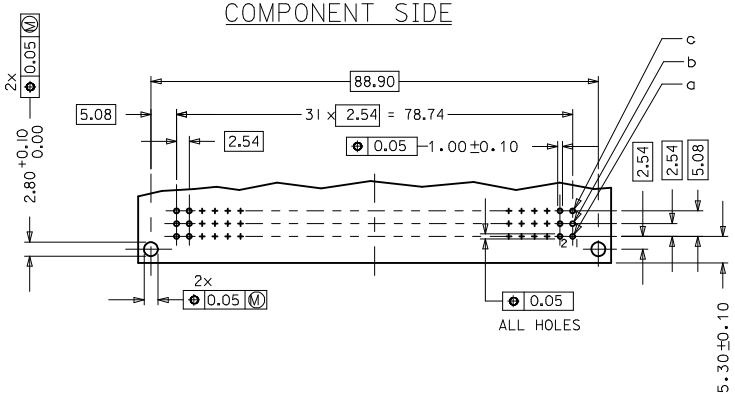
8:1





RECOMMENDED PCB LAYOUT

COMPONENT SIDE



LMFB CONTACTS	4.2
FMLB CONTACTS	5.4
NORMAL CONTACTS	4.8
	M

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

RoHS COMPLIANT

EC NO: I2007-0172
2008/06/07 DRWN:JAYENGG DESCRIPTION
2008/06/19 CHKD:SSUDHIR
2009/01/22 APPR:KPRASAD
REV: C1

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	2001/05/28
CHECKED BY	GJLOWE	2001/05/28
APPROVED BY	GJLOWE	2001/05/28

TITLE: 96 POS. MALE CONNECTOR ACC. DIN 41612 STYLE C CONTACTS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-85003-0001
SHEET NO.: 2 OF

SIZE A1

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

VIEW ON MATING SIDE

	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
c	X	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	X
b	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
a	Z	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Z

A = 30 STANDARD CONTACTS L = 3
B = 32 STANDARD CONTACTS L = 3
C = 30 STANDARD CONTACTS L = 3
Z = 2 FMLB CONTACTS +0.6 L = 3
X = 2 FMLB CONTACTS +0.6 L = 3

S = 96 TOTAL NUMBER OF CONTACTS

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL 2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85003-0001 SHT 2

X	G2/0	c1, 32
Z	G2/0	a1, 32
C	G2/0	c2-31
B	G2/0	b1-32
A	G2/0	a2-31
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. 12004-XXXX
DRWN N.S. 09/09/03
CHK'G L. 09/09/03
APPR'G L. 09/09/03
DESCRIPTION
C
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
THIRD ANGLE PROJECTION
DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY
SHT REV
REVISE ON CAD ONLY
DRAWN BY & DATE S.S. 16/05/02
CHECKED BY & DATE G.L. 16/05/02
APPROVED BY & DATE G.L. 16/05/02
TITLE: 96 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE C CONTACTS ARRANGEMENT
molex MOLEX INCORPORATED
CAD FILENAME SD-85003-1548.SO
MATERIAL NO. 85003-1548
DRAWING NO. SD-85003-1548
SHEET NO. 1 OF 1
SIZE D

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