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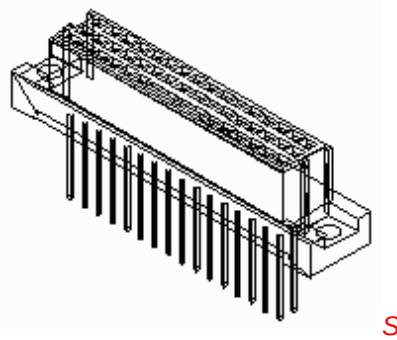
Part Number: 0850420048
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 Receptacle, Style C/2, 32 Circuits



Series image - Reference only

Documents:
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Backplane Connectors
Series	85042
Application	Daughtercard
Component Type	PCB Receptacle
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	C/2

Physical

Circuits (Loaded)	32
Circuits (maximum)	48
Circuits Detail	Rows A & C
Durability (mating cycles max)	400
First Mate / Last Break	No
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	Vertical
PC Tail Length (in)	0.177 In
PC Tail Length (mm)	4.50 mm
PCB Locator	No
PCB Retention	Yes
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
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +125°C

Electrical

Current - Maximum per Contact	2.5A
Data Rate	622.0 Mbps
Real Signals (per 25mm)	29
Shielded	No
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
85042Series

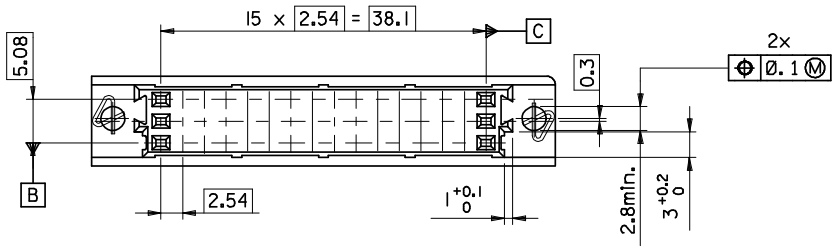
Mates With
DIN 41612 Headers 85003 , 85013

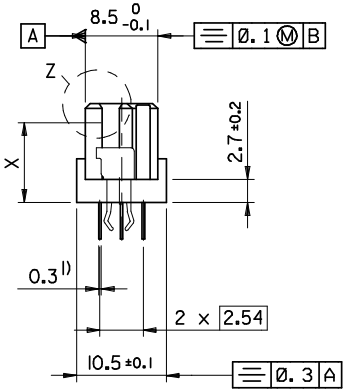
Reference - Drawing Numbers

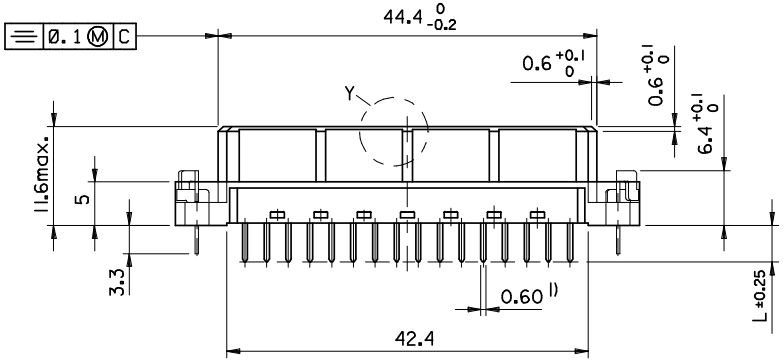
Sales Drawing	SD-85042-0002, SD-85042-002

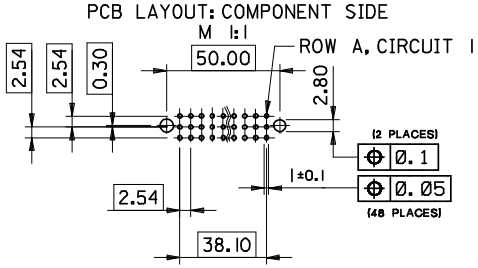
This document was generated on 05/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

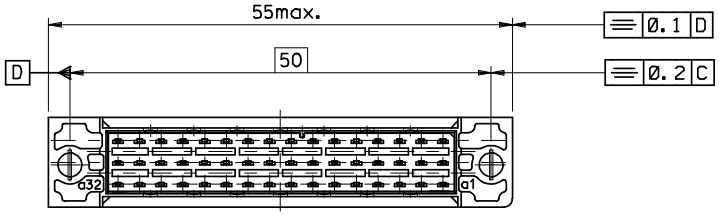


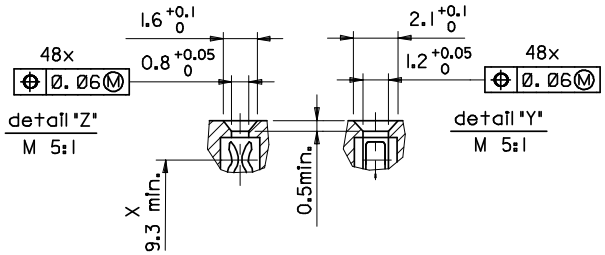






1) tails to fit in PC-board layout





ENTER DESCRIPTION
EC NO: 12009-0082
DRWN:SJ 2008/08/20
CH'KD:KPRASAD 2008/08/25
APPR:KPRASAD 2008/08/26
DESCRIPTION
REV C

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
DRAWN BY: SUMESH	DATE: 2008/08/13	TITLE: 48 POS. FEMALE CONNECTOR DIN 41612, STYLE C/2 DIMENSIONS	
CHECKED BY: KPRASAD	DATE: 2008/08/13		
APPROVED BY: KPRASAD	DATE: 2008/08/13	MOLEX INCORPORATED	
MATERIAL NO.: 850426115		DOCUMENT NO.: SD-85042-0002	SHEET NO.: 1 OF 1

SIZE A2

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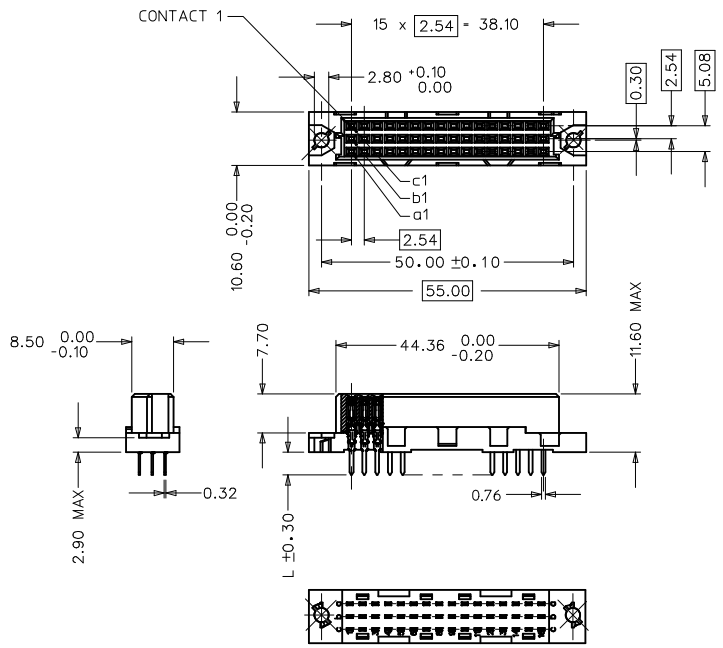
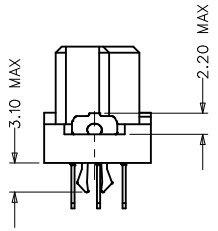
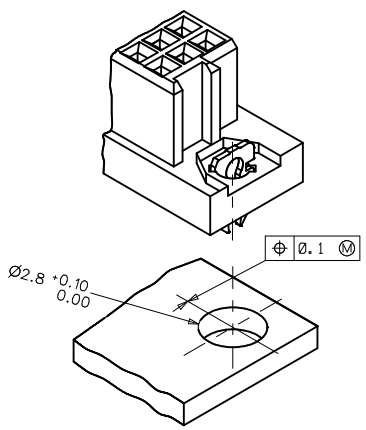
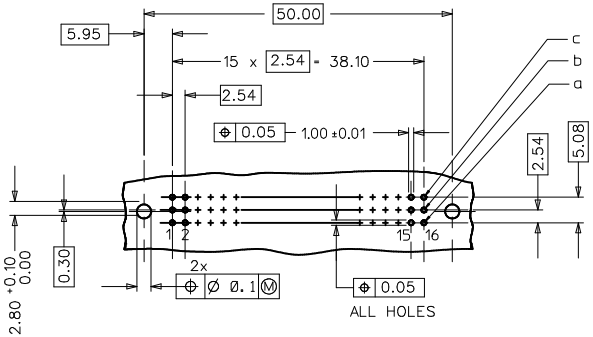


WITH MOUNTING CLIPS





RECOMMENDED PCB LAYOUT
COMPONENT SIDE



NOTES:
1) MATERIALS: THERMOPLASTIC POLYESTER,GLASS FILLED,
   UL94V-0.COLOUR: PEBBLE GREY RAL 7032
   TERMINAL - PHOSPHOR BRONZE
   MOUNTING CLIP: STEEL
2) FINISH: TERMINAL:-
   CONTACT AREA
   1. PERFORMANCE LEVEL 1: SELECTIVE GOLD (Au), THICKNESS = 1.1 MICROMETER
      OVER NICKEL, THICKNESS = 1.5 MICROMETER
   2. PERFORMANCE LEVEL 2: SELECTIVE GOLD (Au), THICKNESS = 0.6 MICROMETER
      OVER NICKEL, THICKNESS = 1.5 MICROMETER
   3. PERFORMANCE LEVEL 3: SELECTIVE GOLD (Au), THICKNESS = 0.3 MICROMETER
      OVER NICKEL, THICKNESS = 1.5 MICROMETER
      TERMINATION AREA:
      SELECTIVE TIN, THICKNESS = 5 MICROMETER
      OVER NICKEL, THICKNESS = 1.5 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) MATERIAL No, BATCH CODE, UL AND CSA MARKING TO BE PRINTED ON THE CONNECTOR.
6) CUT FACES OF TIP WITHOUT PLATING PERMITTED.
7) PRODUCT SPECIFICATION PS-85042-0001

RoHS COMPLIANT

ENTER DESCRIPTION
EC NO: 12010-0293 2009/12/01
DRWN:RKUMAR 2010/01/27
CHKD:KPRASAD 2010/03/11
APPR:KPRASAD
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.1	± ---
1 PLACE	± 0.15	± ---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

		DATE
DRAWN BY	SHANKAR	2006/04/25
CHECKED BY	SSUDHIR	2006/04/25
APPROVED BY	SSUDHIR	2006/04/25

TITLE: ASSY DIN41612 C/2 FEMALE 48 POS 1.0MM PCB DIA

molex MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-85042-002
SHEET NO.: 1 OF 2
SIZE: A1

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MATERIAL No	MOLEX ENG No	PERF LEVEL	PLATING	CONTACT SEQUENCE/ROW	DIM "L" mm	MOUNTING CLIP	FLUX PROOF
850424294	85042-4294	2	Au+Ni	1.2.3....16 a+b+c	2.9	YES	NO
850429025	85042-9025	2	Au+Ni	1.2.3....16 a+b+c	4.5	YES	NO
850420048	85042-0048	2	Au+Ni	1,2,3....16 a+c	4.5	NO	NO
850420086	85042-0086	2	Au+Ni	1,2,3....16 a+b+c	4.5	NO	NO
850421184	85042-1184	1	Au+Ni	1,2,3....16 a+b+c	2.9	NO	YES
850421330	85042-1330	1	Au+Ni	1,2,3....16 a+b+c	4.5	NO	NO
850424268	85042-4268	2	Au+Ni	1,2,3....16 a+b+c	2.9	NO	NO
850424282	85042-4282	2	Au+Ni	1,2,3....16 a+c	2.9	YES	NO
850426098	85042-6098	3	Au+Ni	1,2,3....16 a+b+c	2.9	NO	NO
850429022	85042-9022	2	Au+Ni	1,2,3....16 a+c	2.9	YES	NO

View on mating side

View on mating side

RoHS COMPLIANT

ENTER DESCRIPTION
EC NO: 12010-0293 2009/12/01
DRWN:RKUMAR 2010/01/27
CHKD:KPRASAD 2010/03/11
APPR:KPRASAD
DESCRIPTION
REV
B1

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	SHANKAR	2006/04/25
CHECKED BY	SSUDHIR	2006/04/25
APPROVED BY	SSUDHIR	2006/04/25

TITLE: ASSY DIN41612 C/2 FEMALE 48 POS 1.0MM PCB DIA

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-85042-002
SHEET NO.: 2 OF 2
SIZE: A1

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