This document was generated on 05/17/2010

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Part Number: 0850421249
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 Receptacle, Style C, 64 Circuits

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

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

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

Physical

Circuits (Loaded)	64
Circuits (maximum)	96
Circuits Detail	Rows A & C
Durability (mating cycles max)	500
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	Yes
Number of Columns	32
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)

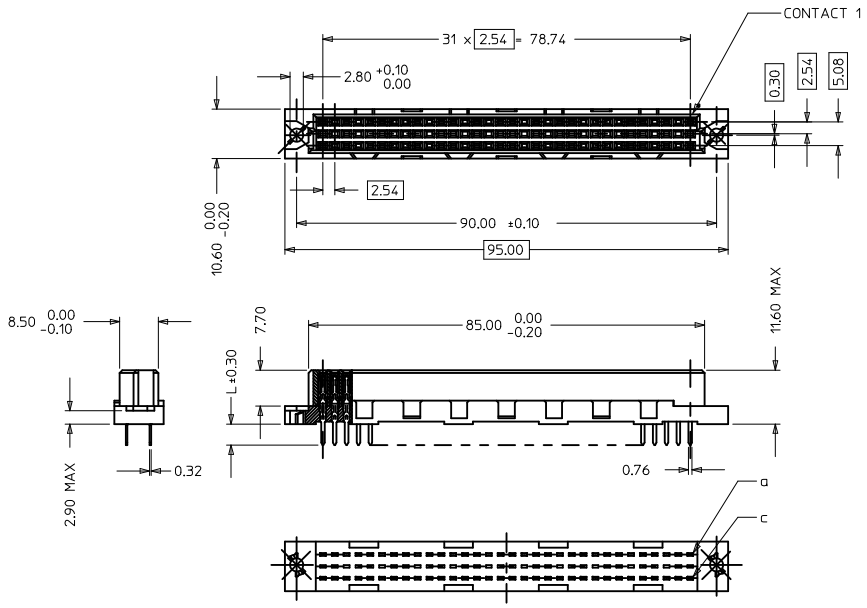
Material Info

Reference - Drawing Numbers

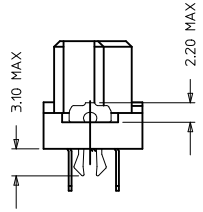
Sales Drawing	SD-85042-001

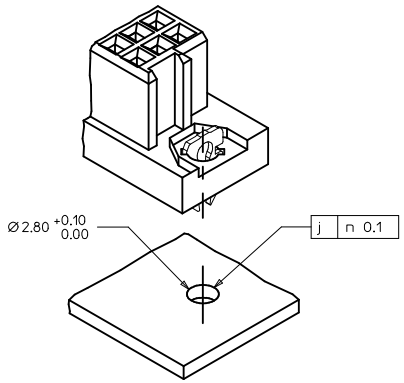
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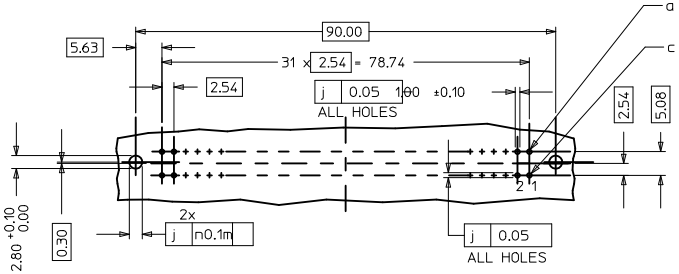


WITH MOUNTING CLIPS





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
A. PERFORMANCE LEVEL 1: SELECTIVE GOLD (Au),
THICKNESS = 1.27 MICROMETER OVER NICKEL
THICKNESS = 1.8 MICROMETER
B. PERFORMANCE LEVEL 2: SELECTIVE GOLD (Au),
THICKNESS= 0.8 MICROMETER OVER NICKEL
THICKNESS= 1.8 MICROMETER.
C. PERFORMANCE LEVEL 3: SELECTIVE GOLD (Au),
THICKNESS= 0.3 MICROMETER OVER NICKEL.
THICKNESS= 1.8 MICROMETER.
TERMINATION AREA:
SELECTIVE TIN, THICKNESS = 5 MICROMETER
OVER NICKEL, THICKNESS 1.8 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 TABULAR 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.

EC NO: I2010-0265 2009/12/11
DRWN:SNS01 2009/12/28
CHKD:KPRASAD 2010/01/06
APPR:KPRASAD
DESCRIPTION
REV 2

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	4:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	PRASHANT
DATE	2004/12/07
CHECKED BY	SSUDHIR
DATE	2004/12/07
APPROVED BY	SSUDHIR
DATE	2004/12/07
TITLE	ASSEMBLY, DIN 41612 C FEMALE, 96 POS
	MOLEX INCORPORATED
MATERIAL NO.	SEE CHART
DOCUMENT NO.	SD-85042-001
SHEET NO.	1 OF 2
SIZE	A2

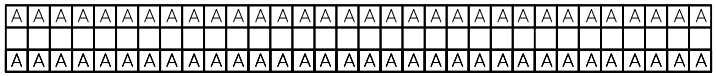
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MATERIAL No	PERF LEVEL	PLATING	CONTACT SEQUENCE/ROW	DIM "L" mm	MOUNTING CLIP NO.	FLUX PROOF
850421249	1	Au+Ni	1.2.3....32 a+c	4.5	NO	NO
850420385	2	Au+Ni	1.2.3....32 a+b+c	2.9	NO	NO
850420191	2	Au+Ni	1.2.3....32 a+c	4.5	NO	NO
850420270	2	Au+Ni	1.2.3....32 a+b+c	4.5	NO	NO
850420397	2	Au+Ni	2,4,6...32 a+c	4.5	NO	NO
850421043	1	Au+Ni	1.2.3....32 a+b+c	4.5	NO	NO
850421079	2	Au+Ni	1.2.3....32 a+b+c	2.9	YES	NO
850421213	2	Au+Ni	1.2.3....32 a+b+c	4.5	YES	NO
850421304	1	Au+Ni	1.2.3....32 a+b+c	2.9	NO	NO
850422347	2	Au+Ni	1.2.3....32 a+b+c	2.9	NO	YES
850422529	2	Au+Ni	1.2.3....32 a+c	2.9	YES	NO
850423316	2	Au+Ni	2,4,6...32 a+c	2.9	YES	YES
850424696	2	Au+Ni	1.2.3....32 a+c	4.5	YES	NO
850424763	2	Au+Ni	2,4,6...32 a+c	2.9	NO	NO
850426232	2	Au+Ni	1.2.3....32 a+b+c	4.5	YES	NO
850429017	3	Au+Ni	1.2.3....32 a+b+c	4.5	YES	NO

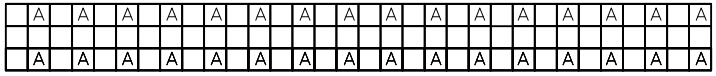
VIEW ON MATING SIDE (96PINS)



VIEW ON MATING SIDE (64PINS)

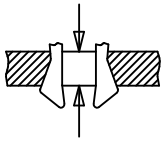


VIEW ON MATING SIDE (32PINS)



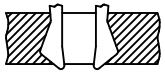
CLIPS SNAP UNDER
PC - BOARD OF
1.5 to 1.8 mm
Fm =< 60N
Fr >= 20N
Fr >= 200N, WHEN
SOLDERED IN
PLATED - THROUGH
FIXING HOLES

Fm = MOUNTING FORCE
(FOR ONE CONNECTOR = 2 CLIPS)



FR = RETENTION FORCE
(FOR ONE CONNECTOR = 2 CLIPS)

CLIPS STICK IN
FIXING HOLE OF
PC - BOARDS
OVER 1.8 mm
Fm =< 60N
FR >= 16N



EC NO: I2010-0265 2009/12/11
DRWN:SNS01 2009/12/28
CH'KD:KPRASAD 2010/01/06
APPR:KPRASAD DESCRIPTION
2 REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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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	PRASHANT	2004/12/07
CHECKED BY	PRASHANT	2004/12/07
APPROVED BY	PRASHANT	2004/12/07

TITLE: ASSEMBLY, DIN 41612, C FEMALE, 96 POS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-85042-001
SHEET NO.: 2 OF 2
SIZE: A2

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