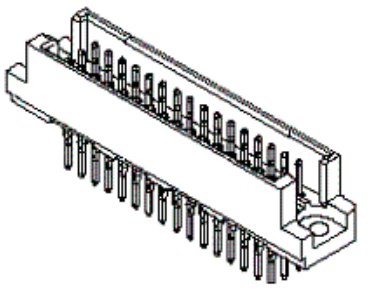
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This document was generated on 05/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0850130050
Status: Active
Overview: din_41612
Description: 2.54mm (.100") Pitch DIN 41612 Header, Through Hole, Vertical, Style R/2 Reverse, 0.6µm (24µ") Selective Gold (Au), 32 Circuits, Lead free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-85013-0001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Backplane Connectors
Series	85013
Application	Backplane
Component Type	PCB Header
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	R/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
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
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)	0.6
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
Voltage - Maximum	1000V (RMS)

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
85013Series

Mates With
85042 DIN 41612 Receptacle . 85052 DIN 41612 Header

Material Info

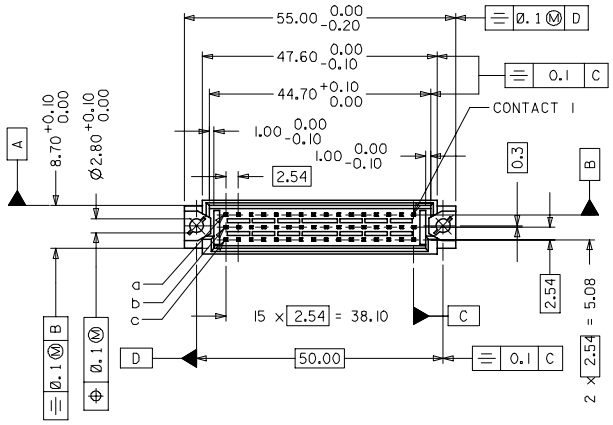
Reference - Drawing Numbers

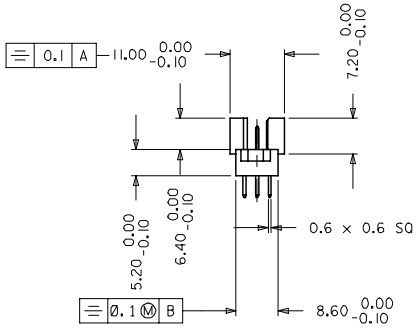
Product Specification	PS-85013-0001
Sales Drawing	E-85013-0002, E-85013-0050, SD-85013-0050, SDA-85013-0002, SDA-85013-0050

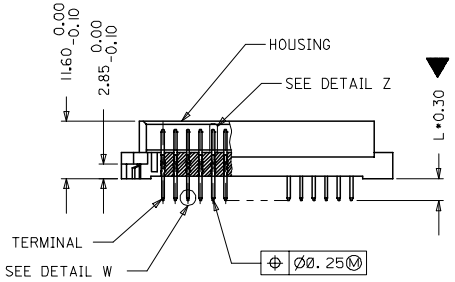
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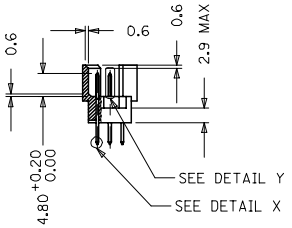
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

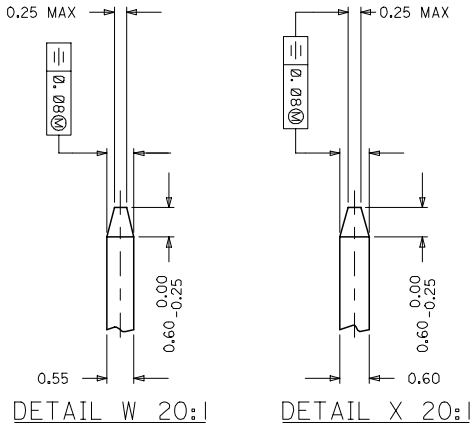
NOTES:
1. MATERIAL NUMBER, BATCH CODE, UL CSA MARKING TO BE PRINTED ON THE CONNECTOR AS PER E-36502-005
2. PRODUCT SPECIFICATION PS:85013-001
3. PACKING SPECIFICATION PK: 36512-001
4. CUT FACES OF TIP WITHOUT PLATING IS PERMITTED
5. REFERENCE AREA OF PLATING
6. GAUGE DRAWING REFER E-36500-100

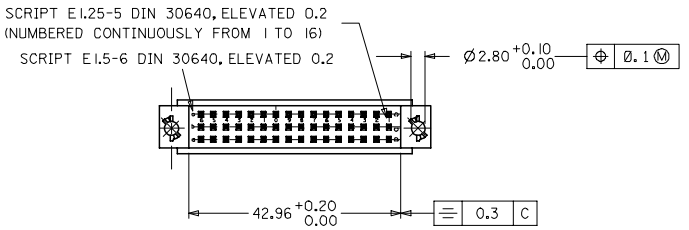












EC NO: I2005-0092 2004/11/23
DRWN:SHIVASHA 2004/11/23
CHK:DKPRASAD 2004/11/23
APPR:SSUDHIR 2004/11/23
DESCRIPTION
REV B

QUALITY SYMBOLS
▼=1
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.1	± ---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

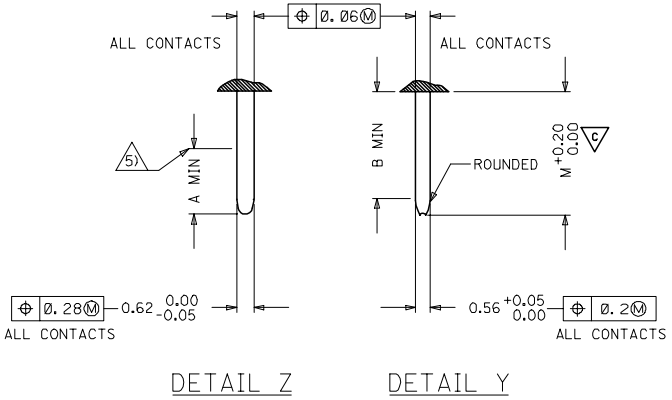
DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: NS DATE: 2004/03/31
CHECKED BY: GJLOWE DATE: 2004/03/31
APPROVED BY: GJLOWE DATE: 2004/03/31
MATERIAL NO.: SEE CHART

TITLE: 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE R/2 CONTACTS
molex MOLEX INCORPORATED
DOCUMENT NO.: E-85013-0002
SHEET NO.: 1 OF 2
SIZE: A1

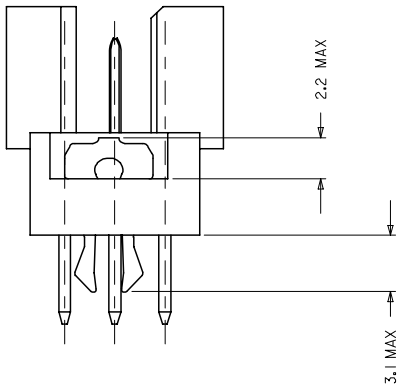
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PRE MATING CONTACTS	5.4	4.1	4.8
NORMAL CONTACTS	4.8	3.5	4.2
	M	A	B



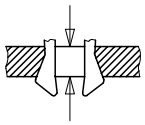
DETAIL Z DETAIL Y

MALE CONNECTOR WITH MOUNTING CLIPS



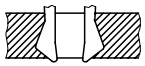
CLIPS SNAP UNDER
PC - BOARD OF
1.5 to 1.8 mm
Fm =< 60N
Fr >= 20N
Fr >= 200N, WHEN
SOLDERED IN
PLATED - THROUGH
FIXING HOLES

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: 12005-0092 2004/11/23
DRWN:SHIVASHA 2004/11/23
CHK:DKPRASAD 2004/11/23
APPR:SSUDHIR 2004/11/23
DESCRIPTION
REV B

QUALITY SYMBOLS
▼=0
▽C=1

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±---	±---
3 PLACES	±0.005	±---
2 PLACES	±0.05	±---
1 PLACE	±0.1	±---

ANGULAR ± 2 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: NS DATE: 2004/03/31
CHECKED BY: GJLOWE DATE: 2004/03/31
APPROVED BY: GJLOWE DATE: 2004/03/31

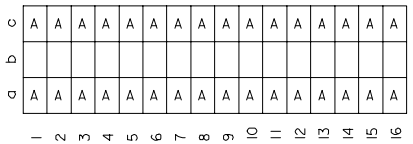
TITLE: 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE R/2 CONTACTS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: E-85013-0002
SHEET NO.: 2 OF 2
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 = 32 STANDARD CONTACTS L = 4.5

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	E-85013-0002 SHT 1-2

A	G2/0	a1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

SL. NO.	DESCRIPTION	CONTACT SYMBOL	PART NUMBER	QTY
1	HOUSING		36520-0002	1
2	TERMINAL	A	36527-0005	32

EC NO. 1 2004-XXXX
DRWN: N.S 31/03/04
CHK: G.L. 31/03/04
APPR: G.L. 31/03/04
DESCRIPTION
A
REV

QUALITY SYMBOLS
MAJOR =
CRITICAL (C) =

GENERAL TOLERANCES: (UNLESS SPECIFIED)

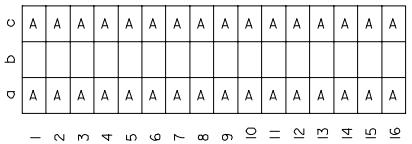
	mm	INCH
4 PLACES	±0.	±.
3 PLACES	±0.	±.
2 PLACES	±0.	±.
1 PLACE	±0.	±.
ANGULAR: ± °		

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 N.S 31/03/04
CHECKED BY & DATE G.L 31/03/04
APPROVED BY & DATE G.L. 31/03/04
CAD FILENAME E-85013-0050.S01
TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT
molex MOLEX INCORPORATED
MATERIAL NO. 85013-0050
DRAWING NO. E-85013-0050
SHEET NO. 1 OF 1
SIZE D

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VIEW ON MATING SIDE



A = 32 STANDARD CONTACTS L = 4.5

MARKING	STANDARD
PERFORMANCE LEVEL	G2/0 = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85013-0002 SHT 1

A	G2/0	a1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. 1 2004-XXXX
DRWN N.S 31/03/04
CHK: G.L. 31/03/04
APPR: G.L. 31/03/04
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

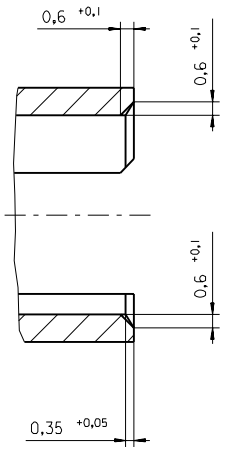
SCALE
DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY
DRAWN BY & DATE N.S 17/03/03
CHECKED BY & DATE G.L 17/03/03
APPROVED BY & DATE G.L. 17/03/03
TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT
MOLEX INCORPORATED
CAD FILENAME SD-85013-0050.SO
MATERIAL NO. 85013-0050
DRAWING NO. SD-85013-0050
SHEET NO. 1 OF 1
SIZE D

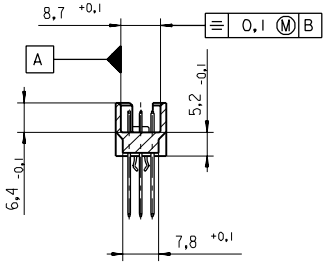
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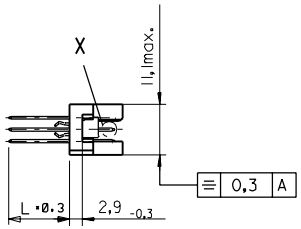
PART NO.

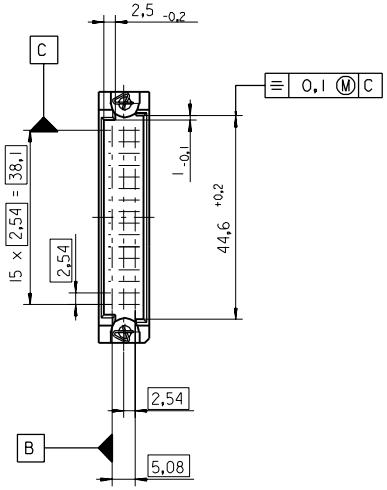
DWG. NO.

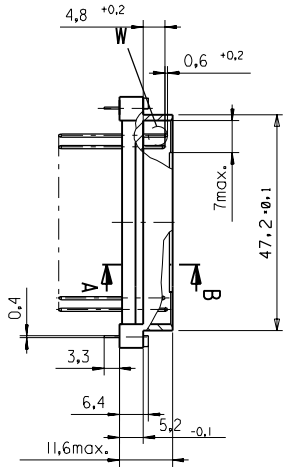
Section A - B
5:1

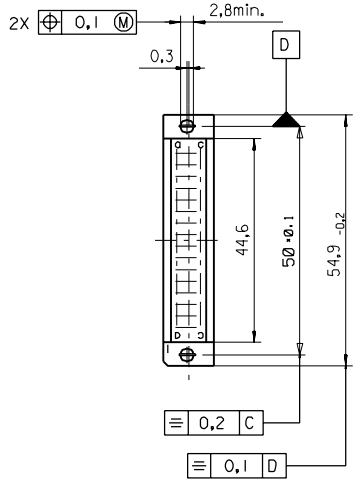






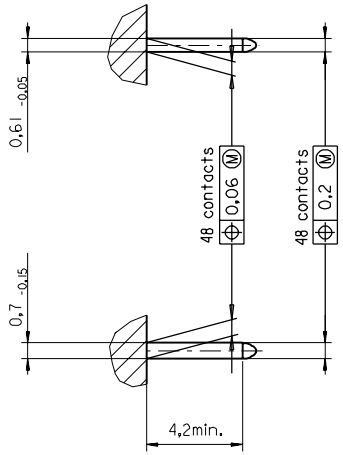






View X
5:1

View W
5:1



first release see ECN No. 1887	REVISIONS	FOR PREVIOUS REVISIONS SEE MR1 LIST	FIRST ANGLE PROJECTION	REVISE ONLY ON CAD SYSTEM	SH. REV.
B1	LTR		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2° INCH METRIC; 3 PLACE ± . ±; 2 PLACE ± . ±; 1 PLACE ± . ±; DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS; DESIGN DIMENSION ☒ MM ☐ IN.; EQUIVALENT DIMENSION ☐ MM ☐ IN.; IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY	DRWG BY Ca SIGN; CHK'D BY KN SIGN; APP'D BY SIGN; SCALE	CADCAM PROJECT NAME 85013000 s21

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TITLE
48 pos. Male connector
acc. DIN 41612 style R/2
Dimensions

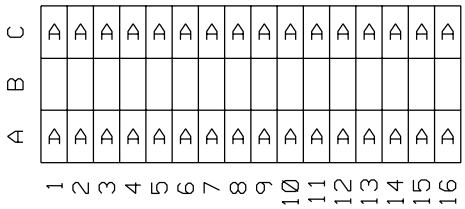
molex MOLEX EUROPE

SHEET NO.	DATE
1 OF	95/06/08

PART NO.	DWG NO.	SIZE
	SDA-85013-0002	B

7132-1283

VIEW ON MATING SIDE



A = 32 STANDARD CONTACTS L=4,5

Marking	Standard
Performance level	G2/0 = Contact area perform. level 2 / Termination tin
Flux proof	no
Fixing clip	no
Dimensions	SDA-85013-0002 sht.1
Technical Data	PS-85013-0001

A	G2/0	a1-16 c1-16
Contact symbol	Perform. level	Contact position number

A	LTR	first release see ECN No. 1868

REVISIONS

FOR PREVIOUS REVISIONS SEE MRI LIST

UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°

	INCH	METRIC
3 PLACE	± .	±
2 PLACE	± .	±
1 PLACE	± .	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION ☐ MM ☐ IN.

EQUIVALENT DIMENSION ☐ MM ☐ IN.

IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY

DRWG BY	Ca	SIGN
CHK'D BY	KN	SIGN
APP'D BY		SIGN
SCALE		

REVISE ONLY ON CAD SYSTEM | SH. | REV.

CADCAM PROJECT NAME s8501300 s51

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TITLE

48 pos. Male connector acc. DIN 41612 style R/2 contacts arrangement

MOLEX EUROPE

SHEET NO. 1 OF 1

DATE 95/06/07

PART NO. 85013-0050

DWG NO. SDA-85013-0050

SIZE A