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Part Number: [0850132012](#)
Status: **Active**
Overview: [din_41612](#)
Description: 2.54mm (.100") Pitch DIN 41612 Header, Through Hole, Vertical, Style R/2 Reverse, 1µm (40µ") Selective Gold (Au), 48 Circuits, Lead free

Documents:
[3D Model](#) [Product Specification PS-85013-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

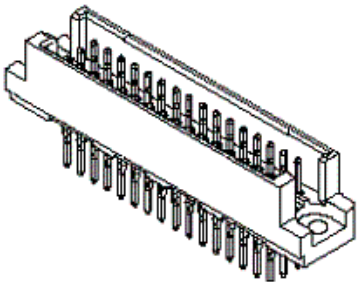
Product Family Backplane Connectors
Series [85013](#)
Application Daughtercard
Comments 4 Day Industrial Environment (S02)
Component Type PCB Header
Overview [din_41612](#)
Product Name IEC 603-2/DIN 41612
Style R/2

Physical

Circuits (Loaded) 48
Circuits (maximum) 48
Circuits Detail Rows A, B, & 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 16
Number of Pairs Open Pin Field
Number of Rows 3
Orientation Vertical
PC Tail Length (in) 0.114 In
PC Tail Length (mm) 2.90 mm
PCB Locator No
PCB Retention Yes
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) 39
Plating min: Mating (µm) 1
Polarized to PCB No
Stackable No
Surface Mount Compatible (SMC) No
Temperature Range - Operating -55°C to +125°C

Electrical

Current - Maximum per Contact 1A
Data Rate 622.0 Mbps



Series
image - Reference only

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

Real Signals (per 25mm)	30
Shield Type	N/A
Shielded	No
Voltage - Maximum	1000V (RMS)

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
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Material Info

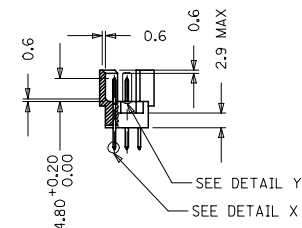
Reference - Drawing Numbers

Product Specification	PS-85013-0001
Sales Drawing	E-85013-0002, E-85013-2012, SD-85013-2012, SDA-85013-0002, SDA-85013-2012

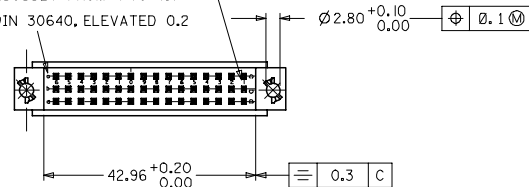
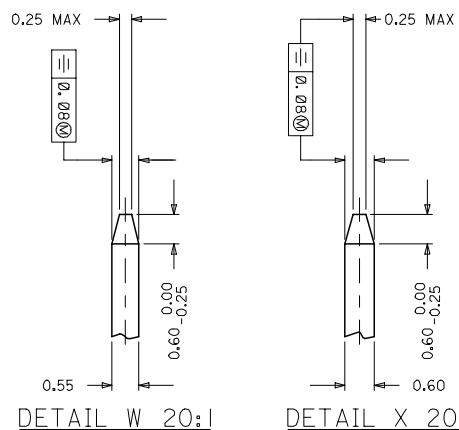
This document was generated on 05/17/2010

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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

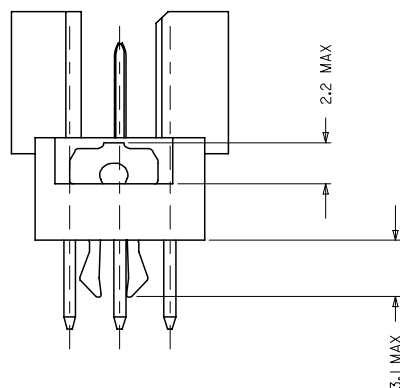


SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2



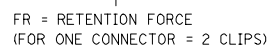
EC NO: 2005-0092	2004/11/23	2004/11/23	2004/11/23	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION														
DRWNSH WASHA	CHKD KRASUD	APPRD SRJHJR	REV	▼=1 ▽=0	<table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><tr><td>4 PLACES</td><td>±0.005</td><td>±---</td></tr><tr><td>3 PLACES</td><td>±0.005</td><td>±---</td></tr><tr><td>2 PLACES</td><td>±0.05</td><td>±---</td></tr><tr><td>1 PLACE</td><td>±0.1</td><td>±---</td></tr></tbody></table>		mm	INCH	4 PLACES	±0.005	±---	3 PLACES	±0.005	±---	2 PLACES	±0.05	±---	1 PLACE	±0.1	±---	DRAWN BY NS CHECKED BY GJLOWE APPROVED BY GJLOWE DATE 2004/03/31 DATE 2004/03/31 DATE 2004/03/31	TITLE 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE R/2 CONTACTS MOLEX INCORPORATED	SHEET NO. 1 OF 2
	mm	INCH																					
4 PLACES	±0.005	±---																					
3 PLACES	±0.005	±---																					
2 PLACES	±0.05	±---																					
1 PLACE	±0.1	±---																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MATERIAL NO. SEE CHART DOCUMENT NO. E-85013-0002 SIZE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		

MALE CONNECTOR WITH MOUNTING CLIPS



DETAIL Y

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



tb_frame_A1_P_ME_T
Rev. D 2004/04/02

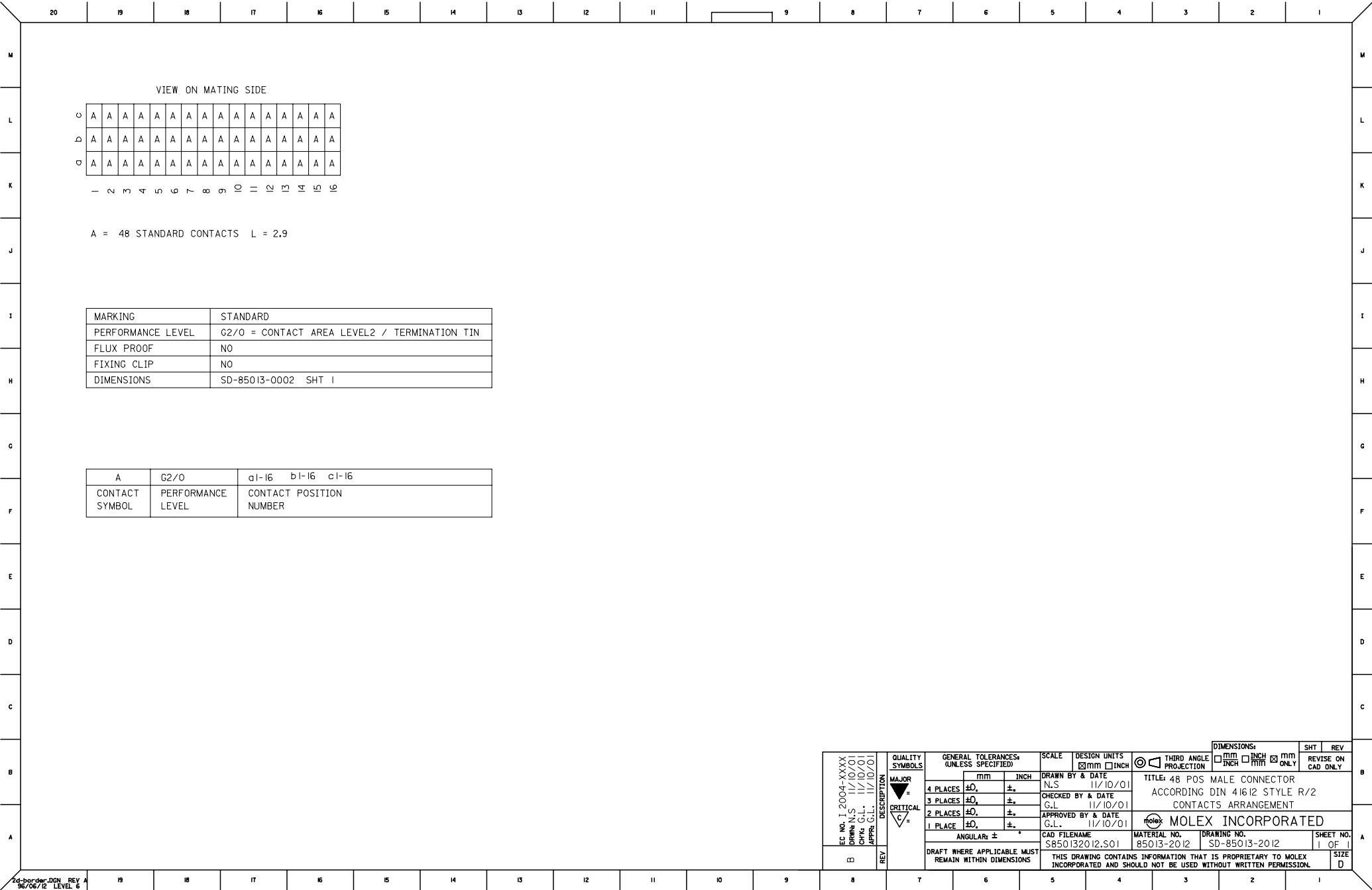
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A = 48 STANDARD CONTACTS L = 2.9

A	G2/O	a1-16 b1-16 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	48

[illegible]



M
L
K
J
I
H
G
F
E
D
C
B
A

M
L
K
J
I
H
G
F
E
D
C
B
A

EC NO. I 2004-XXXX
DRAWN BY N.S. 11/10/01
CHKD BY G.L. 11/10/01
APPR. G.L. 11/10/01

B

MAJOR
CRITICAL

DESCRIPTION

GENERAL TOLERANCES:
(UNLESS SPECIFIED)

4 PLACES ±0.1 ±
3 PLACES ±0.1 ±
2 PLACES ±0.1 ±
1 PLACE ±0.1 ±

ANGULAR ± ± *

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

SCALE

DESIGN UNITS
mm INCH

DRAWN BY & DATE
N.S. 11/10/01

CHECKED BY & DATE
G.L. 11/10/01

APPROVED BY & DATE
G.L. 11/10/01

CAD FILENAME
S850132012.S01

MATERIAL NO.
85013-2012

DRAWING NO.
SD-85013-2012

SHEET NO.
1 OF 1

SIZE
D

DIMENSIONS:
mm INCH mm ONLY

THIRD ANGLE
PROJECTION

TITLE: 48 POS MALE CONNECTOR
ACCORDING DIN 41612 STYLE R/2
CONTACTS ARRANGEMENT

MOLEX INCORPORATED

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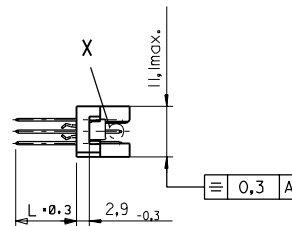
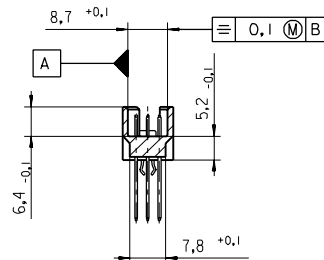
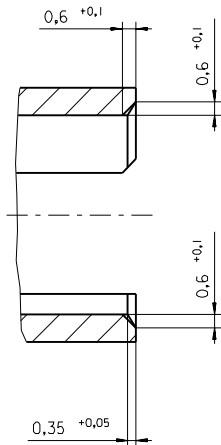
SHT

REV

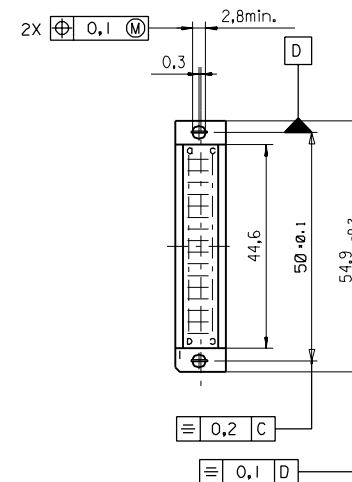
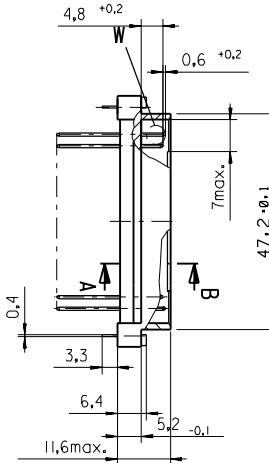
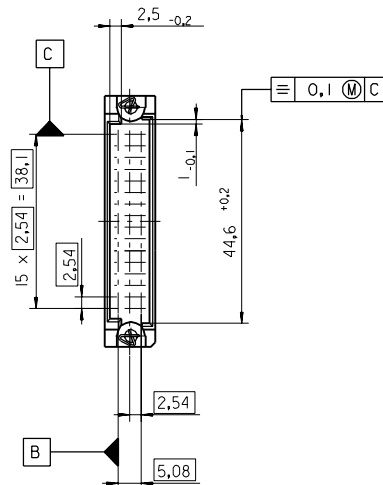
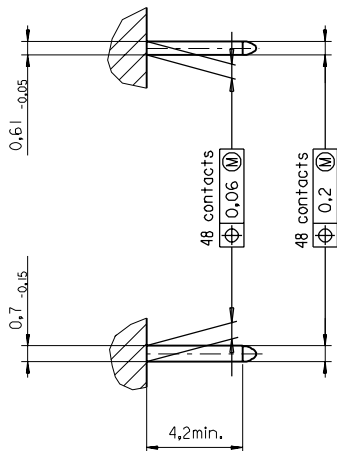
REVISE ON
CAD ONLY

PART NO.
DWG. NO.

Section A - B
5:1



View X
5:1



View W
5:1

FIRST ANGLE PROJECTION

REVISE ONLY ON CAD SYSTEM

SH. REV.

first release see ECN No. 1887	LTR REVISIONS FOR PREVIOUS REVISIONS SEE MRI LIST	UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 2^\circ$		DRWG BY Ca	SIGN	CAD/CAM PROJECT NAME 85013000 621		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		INCH METRIC				TITLE 48 pos. Male connector acc. DIN 41612 style R/2 Dimensions			
		3 PLACE $\pm$. $\pm$				CHK'D BY KN		SHEET NO. DATE 1 OF 95/06/08	
		2 PLACE $\pm$. $\pm$				APP'D BY		SIZE B	
BI	LTR	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SCALE	SIGN	PART NO.		DWG NO.	
		DESIGN DIMENSION ☒ MM ☐ IN.				SDA-85013-0002		SIZE	
		EQUIVALENT DIMENSION ☐ MM ☐ IN.							
IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY									

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