

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

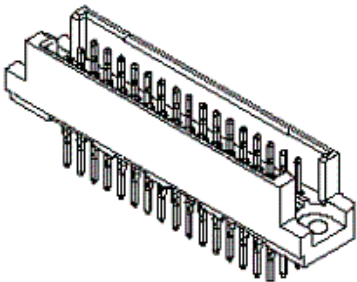
Product Family Backplane Connectors
Series [85013](#)
Application Daughtercard
Comments 4 Day Industrial Environment (S02)
Component Type PCB Header
Overview [din_41612](#)
Product Name IEC 603-2/DIN 41612
Style R/2

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)
------------------------------	------------------------

Material Info

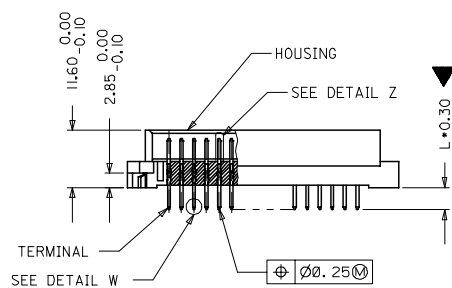
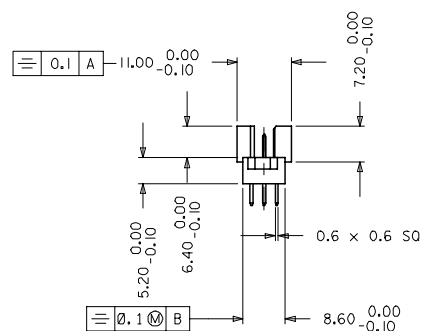
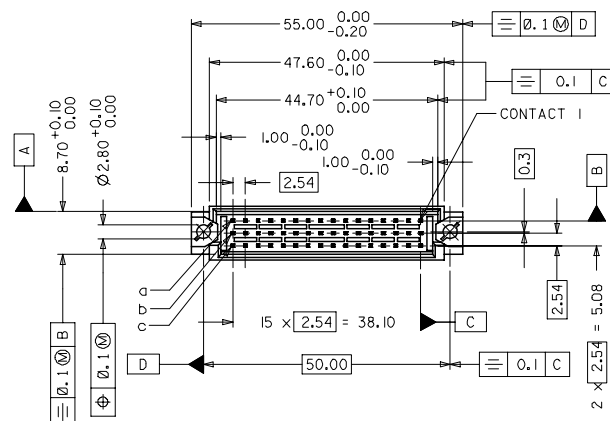
Reference - Drawing Numbers

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

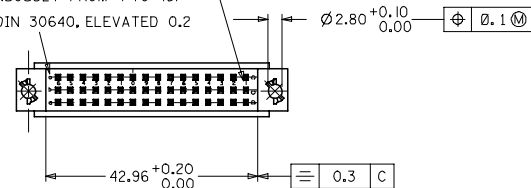
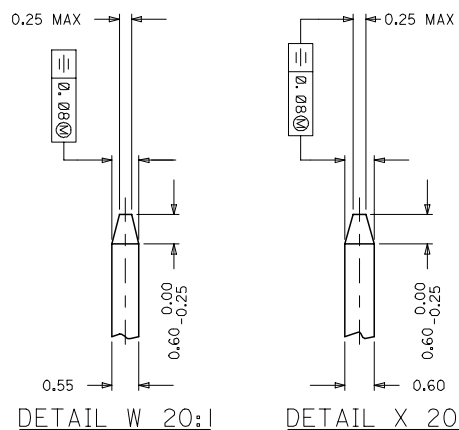
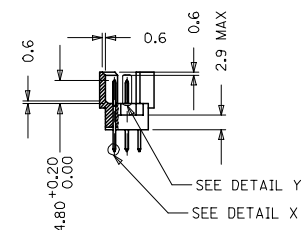
This document was generated on 05/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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



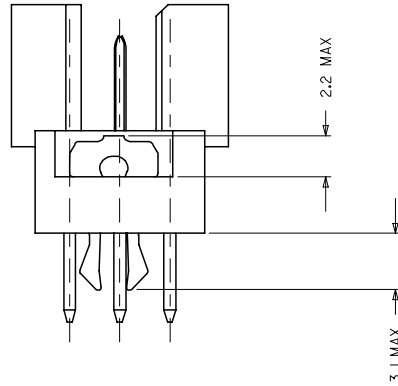
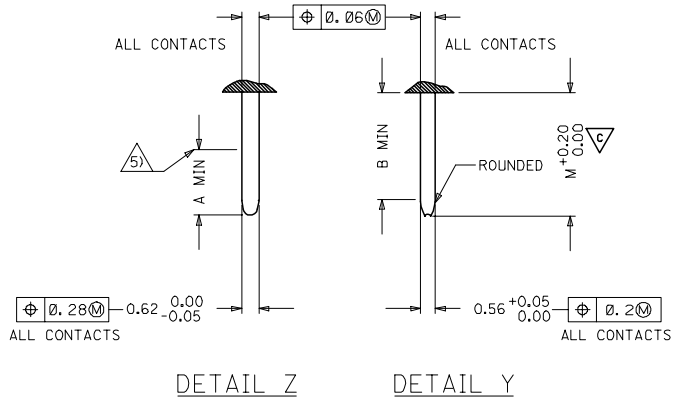
SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2



QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
▼=1 ▽=0		mm INCH		MM ONLY		2:1	METRIC	
DESCRIPTION		4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ±		DRAWN BY DATE NS 2004/03/31 CHECKED BY DATE GJLOWIE 2004/03/31 APPROVED BY DATE GJLOWIE 2004/03/31		TITLE 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE R/2 CONTACTS MOLEX INCORPORATED		
ANGULAR ± 2 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART			E-85013-0002			1 OF 2
SIZE 1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

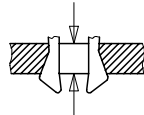
PRE MATING CONTACTS	5.4	4.1	4.8
NORMAL CONTACTS	4.8	3.5	4.2
	M	A	B

MALE CONNECTOR WITH MOUNTING CLIPS

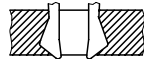


CLIPS SNAP UNDER
PC - BOARD OF
1.5 to 1.8 mm
 $F_m < 60N$
 $F_r > 20N$
 $F_r > 200N$, WHEN
SOLDERED IN
PLATED - THROUGH
FIXING HOLES

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



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



CLIPS STICK IN
FIXING HOLE OF
PC - BOARDS
OVER 1.8 mm
 $F_m < 60N$
 $F_r > 16N$

EC NO. 12005-0092 DRAWN BY: DR. N. S. YASHA CHECKED BY: CH. K. RASAD APPROVED BY: S. S. D. H. R.	DATE: 2004/11/23 2004/11/23 2004/11/23	QUALITY SYMBOLS ▽=0 ▽=1	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE	SCALE	DESIGN UNITS	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	4 PLACES	± 0.1	NS	2004/03/31	48 POS. MALE CONNECTOR				
			3 PLACES	± 0.005	CHECKED BY	DATE	ACC. DIN 41612				
			2 PLACES	± 0.05	GJLOWE	2004/03/31	STYLE R/2 CONTACTS				
			1 PLACE	± 0.1	APPROVED BY	DATE	MOLEX				
			ANGULAR ± 2 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
						SEE CHART		E-85013-0002		2 OF 2	

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

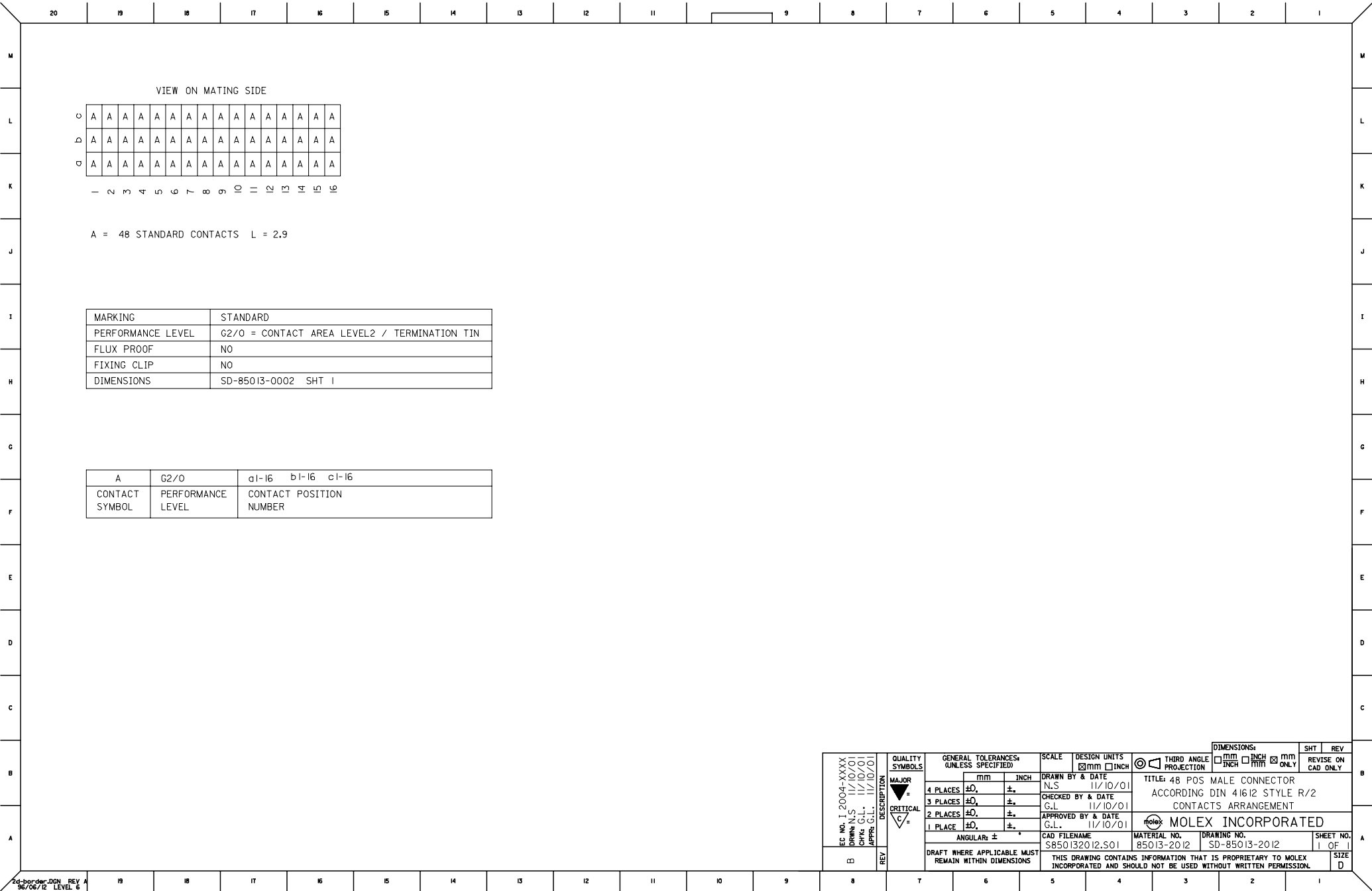
A = 48 STANDARD CONTACTS L = 2.9

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/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

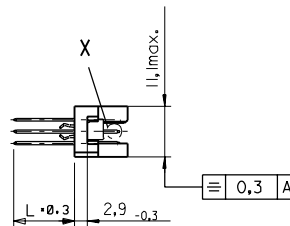
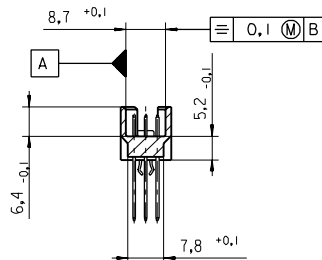
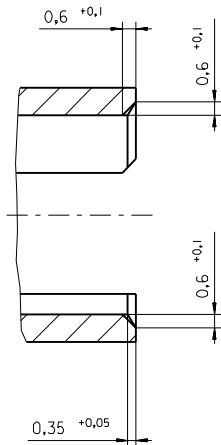
EC NO. 1-2004-XXXX		QUALITY SYMBOLS MAJOR CRITICAL		GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION		DIMENSIONS: ☐ mm ☒ INCH ☐ mm ONLY		SHIT / REV ON CAD ONLY			
DRAWN N.S. 31/03/04 CHKD G.L. 31/03/04 APPRD G.L. 31/03/04				☐ mm ☒ INCH		DRAWN BY & DATE N.S. 31/03/04		☒ mm ☐ INCH		TITLE 48 POS MOLEX CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT							
				4 PLACES ±0.1 ±.1		CHECKED BY & DATE G.L. 31/03/04				MOLEX MOLEX INCORPORATED							
				2 PLACES ±0.1 ±.1		APPROVED BY & DATE G.L. 31/03/04				CAD FILENAME		MATERIAL NO.		DRAWING NO.			
				1 PLACE ±0.1 ±.1						E-85013-2012.SOI		85013-2012		E-85013-2012			
				ANGULAR ± .1										SHEET NO. 1 OF 1			
REV		DESCRIPTION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.										SIZE	



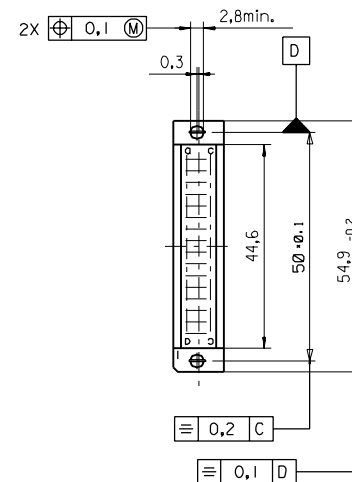
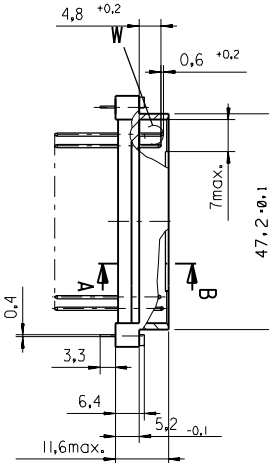
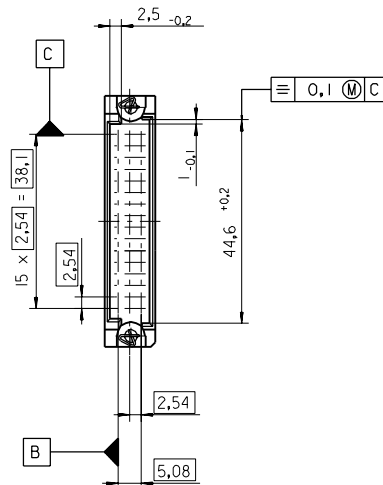
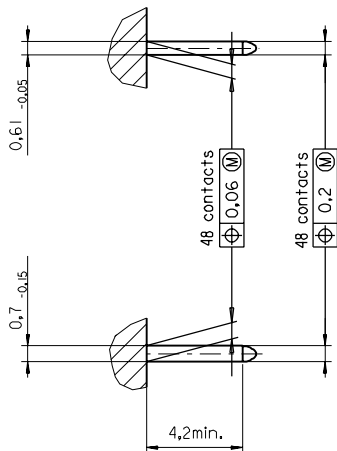
EC NO. I 2004-XXXX DRAWN N.S. 11/10/01 CHK'd G.L. 11/10/01 APPR G.L. 11/10/01		QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES* (UNLESS SPECIFIED)		SCALE	DESIGN UNITS ☒ mm ☐ INCH		THIRD ANGLE	DIMENSIONS:			SHT	REV
								☐ mm ☐ INCH	☐ mm ☐ INCH	☐ mm ☐ INCH		REVISE ON CAD ONLY	
B		REV	mm INCH		DRAWN BY & DATE N.S. 11/10/01		TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT						
			4 PLACES ± 0.1 $\pm$		CHECKED BY & DATE G.L. 11/10/01								
			3 PLACES ± 0.1 $\pm$		APPROVED BY & DATE G.L. 11/10/01								
			2 PLACES ± 0.1 $\pm$										
			1 PLACE ± 0.1 $\pm$										
			ANGULAR $\pm$		CAD FILENAME S850132012.S01		MATERIAL NO. 85013-2012		DRAWING NO. SD-85013-2012		SHEET NO. 1 OF 1		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.							SIZE D	

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	SIGN	APP'D BY	SIGN	SCALE	SHEET NO. 1 OF	DATE 95/06/08
			2 PLACE $\pm$.	$\pm$									
1 PLACE $\pm$.	$\pm$	DESIGN DIMENSION ☒ MM ☐ IN.	SIZE B										
BI			EQUIVALENT DIMENSION ☐ MM ☐ IN.	IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY				PART NO.	DWG NO.	SDA-85013-0002			

