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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

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

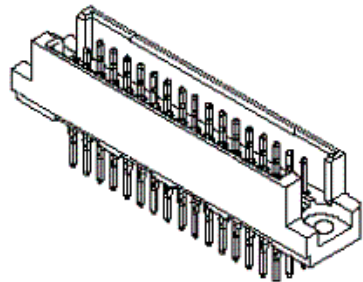
Product Family	Backplane Connectors
Series	85013
Application	Backplane
Component Type	PCB Header
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	R/2

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)



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

Material Info

Reference - Drawing Numbers

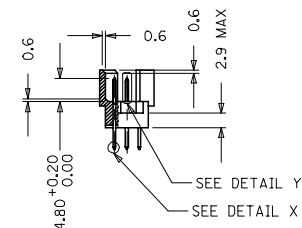
Product Specification
Sales Drawing

PS-85013-0001
E-85013-0002, E-85013-0050, SD-85013-0050,
SDA-85013-0002, SDA-85013-0050

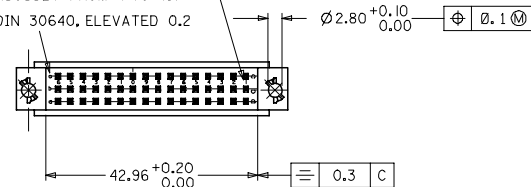
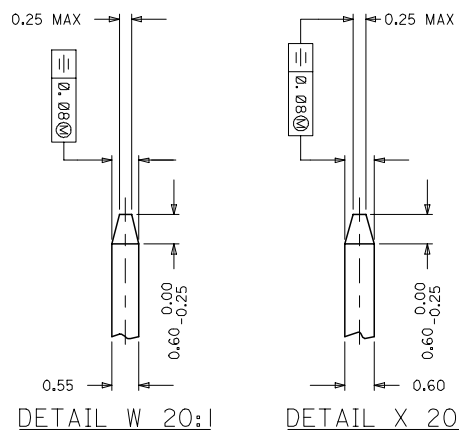
This document was generated on 05/17/2010

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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



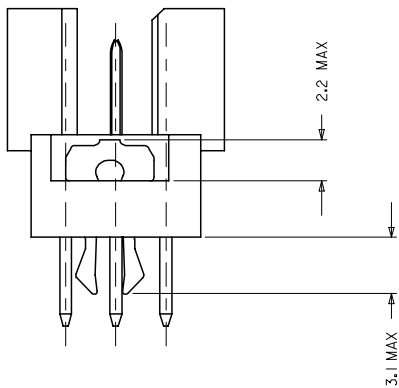
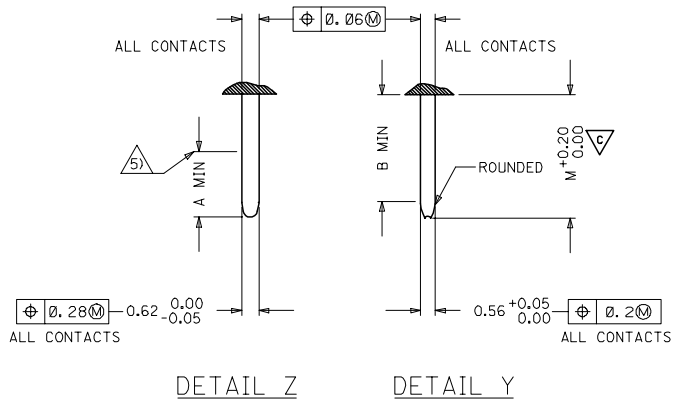
SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2



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														
DRINKING WATER		CHICKENPOX		CHICKENPOX		CHICKENPOX		▽=1 ▽=0		<table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>±0.005</td><td>±0.0002</td></tr><tr><td>3 PLACES</td><td>±0.005</td><td>±0.0002</td></tr><tr><td>2 PLACES</td><td>±0.005</td><td>±0.0002</td></tr><tr><td>1 PLACE</td><td>±0.1</td><td>±0.004</td></tr></table>			mm	INCH	4 PLACES	±0.005	±0.0002	3 PLACES	±0.005	±0.0002	2 PLACES	±0.005	±0.0002	1 PLACE	±0.1	±0.004	DRAWN BY NS		DATE 2004/03/31		TITLE 48 POS. MALE CONNECTOR	
	mm	INCH																														
4 PLACES	±0.005	±0.0002																														
3 PLACES	±0.005	±0.0002																														
2 PLACES	±0.005	±0.0002																														
1 PLACE	±0.1	±0.004																														
APPROPRIATE		APPROPRIATE		APPROPRIATE		APPROPRIATE						CHECKED BY GJLOWE		DATE 2004/03/31		ACC. DIN 41612																
												APPROVED BY GJLOWE		DATE 2004/03/31		STYLE R/2 CONTACTS																
																MOLEX MOLEX INCORPORATED																
										ANGULAR ± 2°		MATERIAL NO. SEE CHART		DOCUMENT NO. E-85013-0002		SHEET NO. 1 OF 2																
										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																		

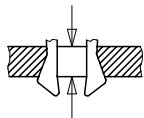
PRE MATING CONTACTS	5.4	4.1	4.8
NORMAL CONTACTS	4.8	3.5	4.2
	M	A	B

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

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

A = 32 STANDARD CONTACTS L = 4.5

DIMENSIONS	E-85013-0002	SHT	1-2
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A	G2/O	d1-l6	c1-l6
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

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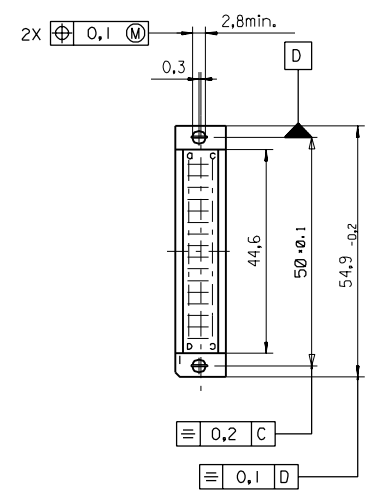
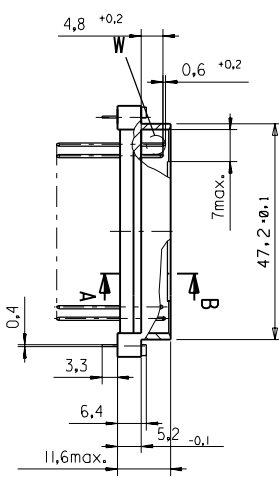
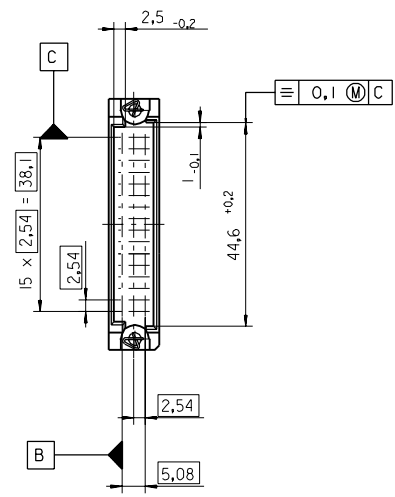
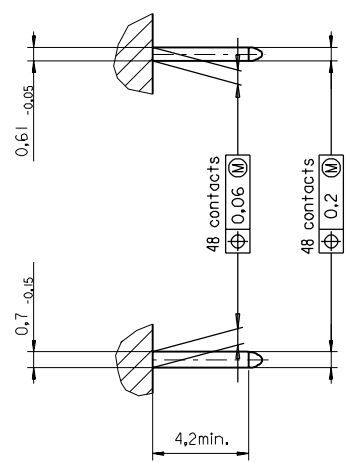
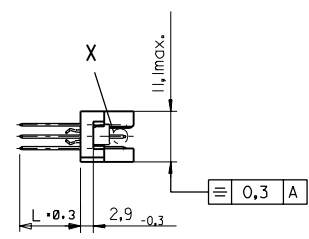
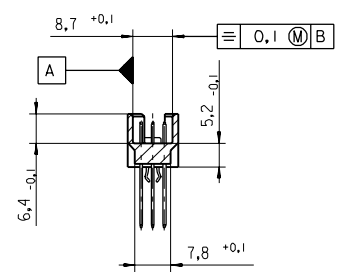
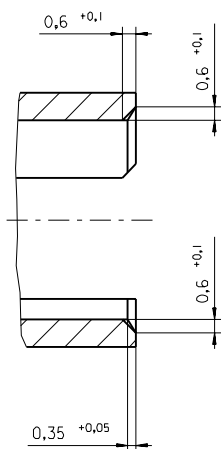
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A = 32 STANDARD CONTACTS L = 4.5

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

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

EC. NO. 1/2004-XXXX		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION		DIMENSIONS:		SMT		REV	
DRAWN N. 3/03/04		MAJOR		mm		mm		mm		mm		mm		mm		mm	
CHKD G.L. 3/03/04		CRITICAL		mm		mm		mm		mm		mm		mm		mm	
APPR. G.L. 3/03/04		✓		mm		mm		mm		mm		mm		mm		mm	
REV		DESCRIPTION		mm		mm		mm		mm		mm		mm		mm	
B		1 PLACE		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1	
		2 PLACES		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1	
		3 PLACES		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1	
		4 PLACES		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1	
		ANGULAR		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1		±0.1	
		DRAWN BY & DATE		N.S.		17/03/03		CHECKED BY & DATE		G.L.		17/03/03		APPROVED BY & DATE		G.L.	
		CAD FILENAME		8D-85013-0050-50		MATERIAL NO.		85013-0050		DRAWING NO.		8D-85013-0050		SHEET NO.		1 OF 1	
		DRAFT HEREON 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											



FIRST ANGLE PROJECTION				REVISE ONLY ON CAD SYSTEM				SH.		REV.	
REVISIONS FOR PREVIOUS REVISIONS SEE MRI LIST	UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 2^\circ$			DRWG BY	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			Ca		TITLE					
	3 PLACE $\pm$. $\pm$			CHK'D BY	SIGN	48 pos. Male connector acc. DIN 41612 style R/2 Dimensions					
	2 PLACE $\pm$. $\pm$										
	1 PLACE $\pm$. $\pm$			APP'D BY	SIGN						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
LTR	DESIGN DIMENSION ☒ MM			SCALE		 MOLEX EUROPE		SHEET NO.		DATE	
	☐ IN.							1 OF		95/06/08	
	EQUIVALENT DIMENSION ☐ MM			PART NO.		DWG NO.		SDA-85013-0002		SIZE B	
	☐ IN.										
IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY											

[illegible]

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$A = 32$ STANDARD CONTACTS $L = 4, 5$

Marking	Standard
Performance level	G2/0 = Contact area perform. level2 / Termination tin
Flux proof	no
Fixing clip	no
Dimensions	SDA-85013-0002 sht.1
Technical Data	PS-85013-0001

A	G2/0	c1-l6	c1-l6
Contact symbol	Perform. level	Contact position number	

first release see ECN No. 1868	LTR	REVISIONS		FOR PREVIOUS REVISIONS SEE MFL LIST		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°		DRWG BY	SIGN	REVERSE ONLY ON CAD SYSTEM		SH.	REV.
		INCH		METRIC									
		3 PLACE ± .	±			Ccd				CAD/CAM PROJECT NAME s8501300 s51		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		2 PLACE ± .	±			CHK'D BY				TITLE			
		1 PLACE ± .	±			KN				48 pos. Male connector acc. DIN 41612 style R/2 contacts arrangement			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APP'D BY							
		DESIGN DIMENSION		☐ MM ☐ IN.						MOLEX® MOLEX EUROPE		SHEET NO. 1 OF 1	DATE 95/06/07
		EQUIVALENT DIMENSION		☐ MM ☐ IN.		SCALE				PART NO. 85013-0050		DWG NO. SDA-85013-0050	SIZE A
		IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION LOWER IS SECONDARY											

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JONHON

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Электронная почта: ocean@oceanchips.ru

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