

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

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

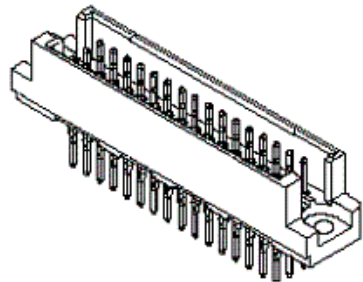
Product Family	Backplane Connectors
Series	85013
Application	Backplane
Component Type	PCB Header
Overview	din_41612
Product Name	IEC 603-2/DIN 41612
Style	R/2

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

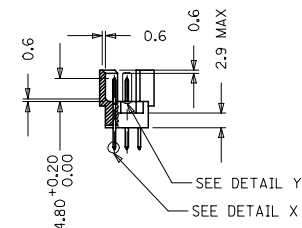
Product Specification
Sales Drawing

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

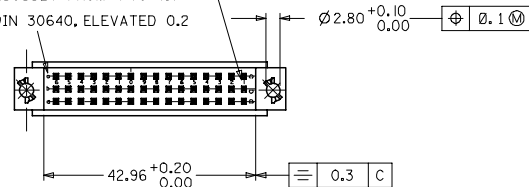
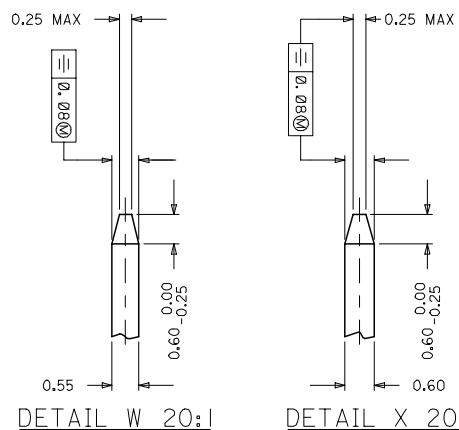
This document was generated on 05/17/2010

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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



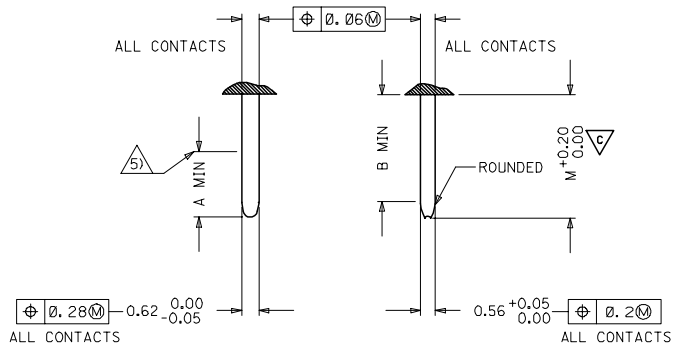
SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2



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

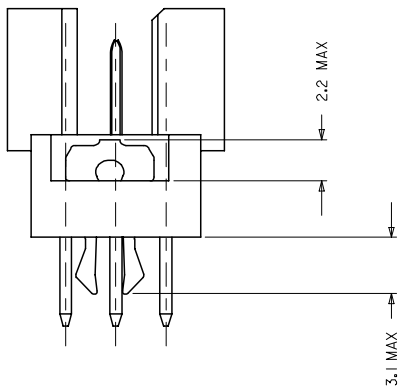
PRE MATING CONTACTS	5.4	4.1	4.8
NORMAL CONTACTS	4.8	3.5	4.2
	M	A	B

MALE CONNECTOR WITH MOUNTING CLIPS



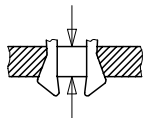
DETAIL Z

DETAIL Y



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

QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
SYMBOL	DESCRIPTION	mm	INCH	mm ONLY	DATE	2:1	METRIC	DATE	DATE
▽=0	4 PLACES	±0.05	±0.002	NS	2004/03/31				
▽=1	3 PLACES	±0.005	±0.0005	CHECKED BY	DATE				
	2 PLACES	±0.05	±0.005	GJLOWE	2004/03/31				
	1 PLACE	±0.1	±0.01	APPROVED BY	DATE				
				GJLOWE	2004/03/31				
				ANGULAR	± 2 °				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
				SEE CHART					
				MATERIAL NO.					
				DOCUMENT NO.					

20191817161514131211987654321

M

L

K

J

I

H

G

F

E

D

C

B

A

24-border-DGN_REV A
96/06/12 LEVEL 6

19181716151413121110987654321

M

L

K

J

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H

G

F

E

D

C

B

A

VIEW ON MATING SIDE

12345678910111213141516

A

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A

A

A

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. I 2004-XXXX
DRAWN: N.S. 31/03/04
CHK'd: G.L. 31/03/04
APPR: G.L. 31/03/04

A

QUALITY SYMBOLS

MAJOR
4

CRITICAL
5

DESCRIPTION
REV

GENERAL TOLERANCES:
(UNLESS SPECIFIED)

4 PLACES
3 PLACES
2 PLACES
1 PLACE

±0.
±0.
±0.
±0.

±.
±.
±.
±.

ANGULAR: ±

*

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE

DESIGN UNITS
☒ mm ☐ INCH

DRAWN BY & DATE
NLS 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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

DIMENSIONS:
☐ mm ☐ INCH ☒ mm ONLY

THIRD ANGLE PROJECTION

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

MOLEX

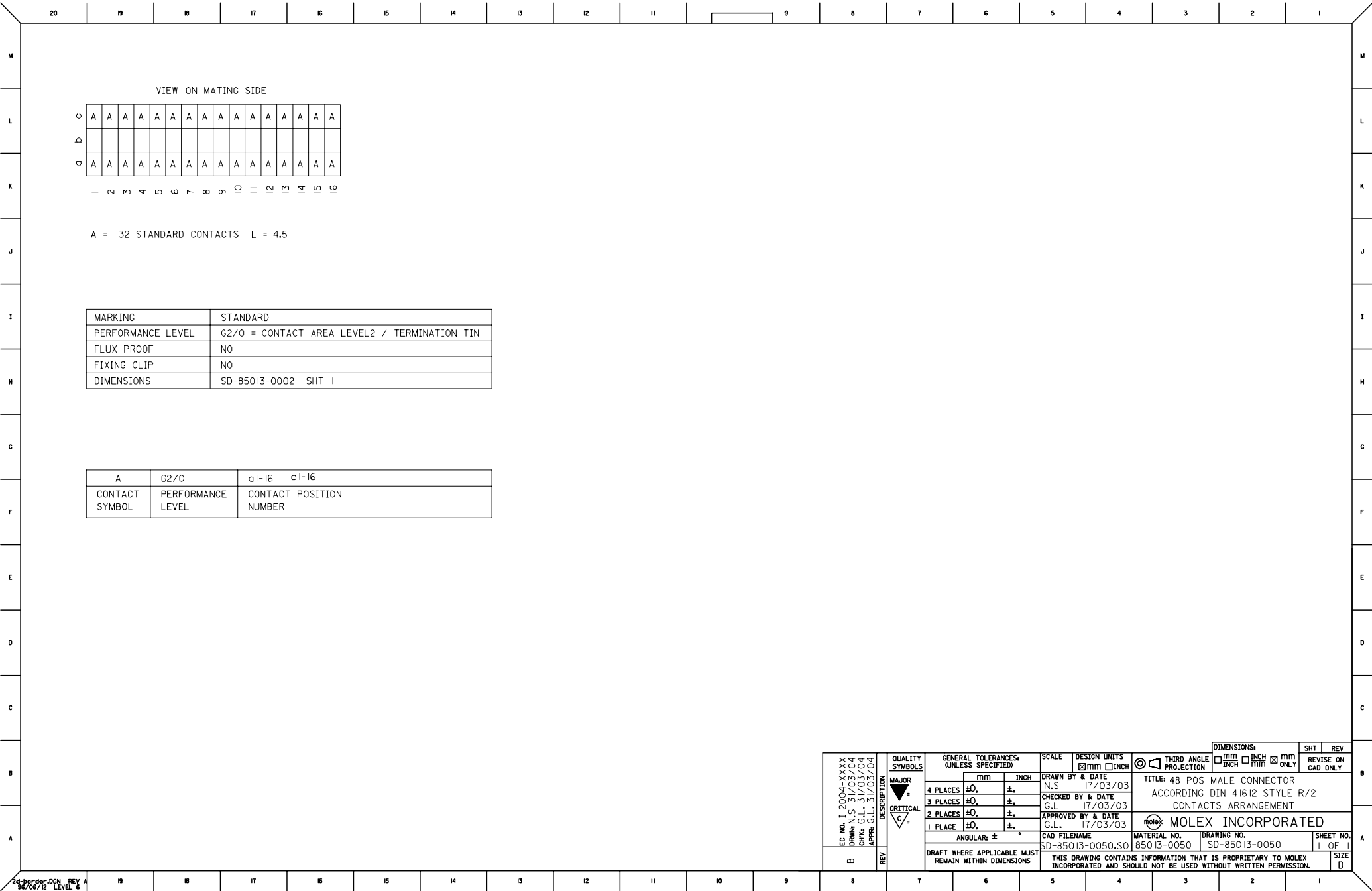
MOLEX INCORPORATED

MATERIAL NO.
85013-0050

DRAWING NO.
E-85013-0050

SHEET NO.
1 OF 1

SIZE
D



VIEW ON MATING SIDE

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

A = 32 STANDARD CONTACTS L = 4.5

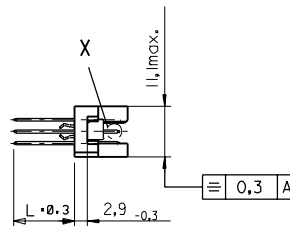
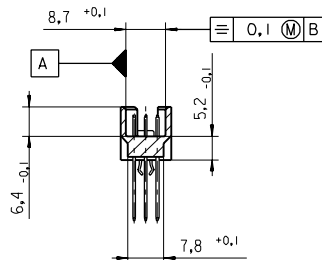
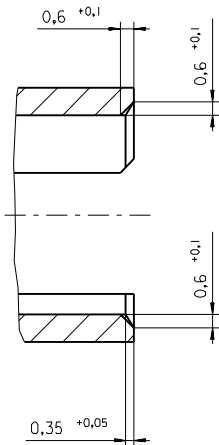
MARKING	STANDARD
PERFORMANCE LEVEL	G2/O = CONTACT AREA LEVEL2 / TERMINATION TIN
FLUX PROOF	NO
FIXING CLIP	NO
DIMENSIONS	SD-85013-0002 SHT 1

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

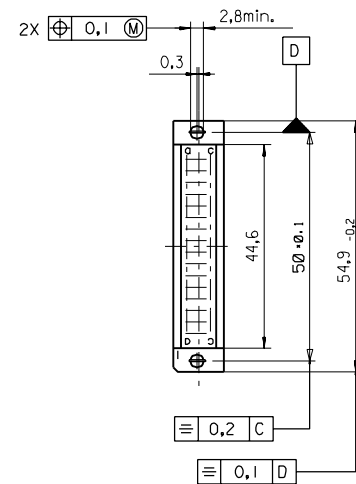
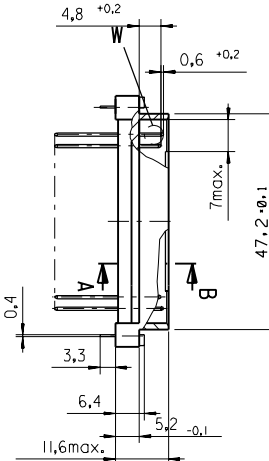
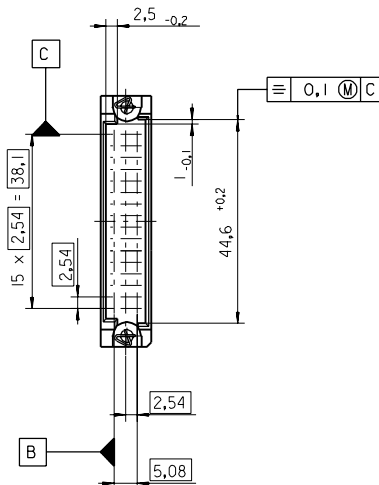
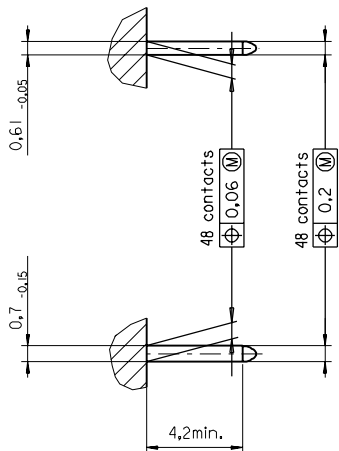
EC NO. I 2004-XXXX DRAWN N.S. 31/03/04 CHK'd G.L. 31/03/04 APPR G.L. 31/03/04				QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±0. ±. 3 PLACES ±0. ±. 2 PLACES ±0. ±. 1 PLACE ±0. ±. ANGULAR ± *	SCALE DRAWN BY & DATE N.S. 17/03/03 CHECKED BY & DATE G.L. 17/03/03 APPROVED BY & DATE G.L. 17/03/03	DESIGN UNITS mm INCH THIRD ANGLE PROJECTION	DIMENSIONS:			MATERIAL NO. 85013-0050	DRAWING NO. SD-85013-0050	SHEET NO. 1 OF 1	REVISE ON CAD ONLY
								mm	INCH	mm ONLY				
TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT				MOLEX INCORPORATED										
CAD FILENAME SD-85013-0050.S01				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.										SIZE D
DRAFT HERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														

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 ± 2°	DRWG BY Ca	CAD/CAM PROJECT NAME 85013000 621	
		INCH METRIC	CHK'D BY KN	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		3 PLACE ± . ±	APP'D BY	TITLE 48 pos. Male connector acc. DIN 41612 style R/2 Dimensions	
		2 PLACE ± . ±	SCALE	SHEET NO. DATE 1 OF 95/06/08	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DESIGN DIMENSION ☒ MM ☐ IN.		PART NO.	
EQUIVALENT DIMENSION ☐ MM ☐ IN.		IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY		DWG. NO. SDA-85013-0002	
BI		MOLEX EUROPE		SIZE B	

A	∇	∇	∇
B	∇	∇	∇
C	∇	∇	∇

	1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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	a1-l6 c1-l6
	Contact symbol	Per form.	Contact position number
B			

first release see ECN No. 1868	REVISIONS	FOR PREVIOUS REVISIONS SEE MRJ LIST		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°		DRWG BY	SIGN	CAD/CAM PROJECT NAME s8501300 s51	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SH.	REV.			
				INCH METRIC		Ca								
		3 PLACE ± . ±		±		CHK'D BY	SIGN							
		2 PLACE ± . ±		±		KN								
		1 PLACE ± . ±		±		APP'D BY	SIGN							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DESIGN DIMENSION		☐ MM ☐ IN.		SCALE		MOLEX® MOLEX EUROPE		SHEET NO. DATE	85013-0050	SDA-85013-0050	SIZE A	
										PART NO. 85013-0050				DWG NO. SDA-85013-0050

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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