

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0850132127](#)
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](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

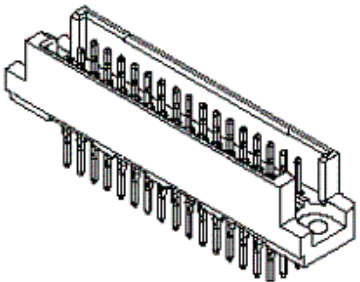
Product Family Backplane Connectors
Series [85013](#)
Application Daughtercard
Comments 10 Day Industrial Environment (S02)
Component Type PCB Header
Overview [din_41612](#)
Product Name IEC 603-2/DIN 41612
Style R/2

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) 0.110 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**

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)

Material Info

Reference - Drawing Numbers

Sales Drawing	E-85013-2127, SD-85013-2127, SDA-85013-0002, SDA-85013-2127
---------------	--

This document was generated on 05/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

A = 48 STANDARD CONTACTS L = 2.9

A	G1/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	36527-0004	48

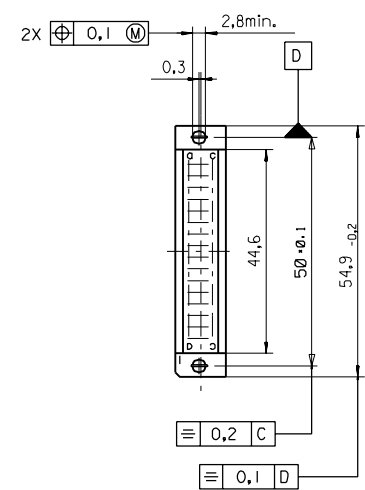
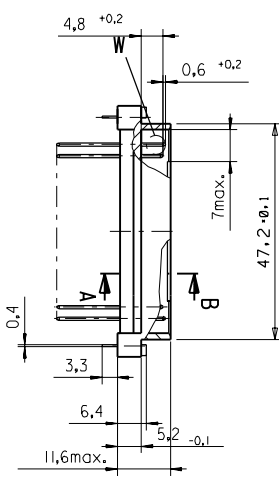
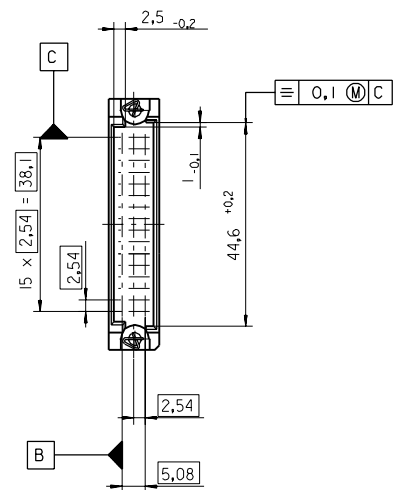
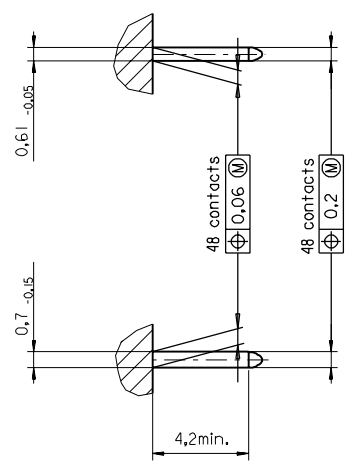
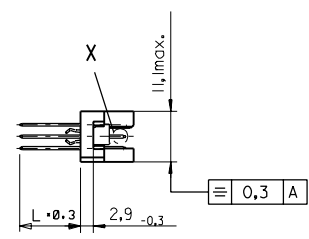
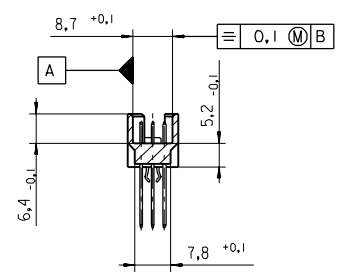
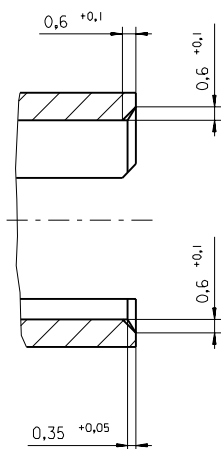
1b_frame_A1_P_ME_T
Rev. D 2004/04/02

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

A = 48 STANDARD CONTACTS L = 2.9

A	G1/O	a1-16 b1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. 1 2002-XXXX DRAWN, S. 31/03/04 CHKS G.L. 31/03/04 APPR'L. L. 31/03/04		QUALITY SYMBOLS MAJOR CRITICAL MINOR	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± 0.1 $\pm .$ 3 PLACES ± 0.2 $\pm .$ 2 PLACES ± 0.3 $\pm .$ 1 PLACE ± 0.5 $\pm .$ ANGULAR $\pm$	SCALE 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 S850132127.S01	DESIGN UNITS mm INCH THIRD ANGLE PROJECTION TITLE 48 POS MOLEX CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT MOLEX INCORPORATED MATERIAL NO. 85013-2127 DRAWING NO. SD-85013-2127	DIMENSIONS: mm INCH mm ONLY SHIT REVERSE ON CAD ONLY	SHEET NO. 1 OF 1	SIZE
A 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.					



FIRST ANGLE PROJECTION		REVISE ONLY ON CAD SYSTEM		SH.	REV.
first release see ECN No. 1887	LTR	REVISIONS FOR PREVIOUS REVISIONS SEE MRI LIST	DRWG BY Ca	CAD/CAM PROJECT NAME 85013000 621	
			CHK'D BY KN	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
			APP'D BY	TITLE 48 pos. Male connector acc. DIN 41612 style R/2 Dimensions	
			SCALE	SHEET NO. DATE 1 OF 95/06/08	
BI	LTR	DESIGN DIMENSION ☒ MM EQUIVALENT DIMENSION ☐ MM	IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY	PART NO. DWG NO. SIZE	
				SDA-85013-0002 B	

VIEW ON MATING SIDE

A	$\triangleleft$	$\triangleleft$	$\triangleleft$
B	$\triangleleft$	$\triangleleft$	$\triangleleft$
C	$\triangleleft$	$\triangleleft$	$\triangleleft$

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

A = 48 STANDARD CONTACTS $\Gamma = 2.9$

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

first release see ECN No. 2453	REVISIONS	FOR PREVIOUS REVISIONS SEE MFL LIST		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm$ °		DRWG BY	SIGN	CAD/CAM PROJECT NAME s8501321 s21		REVISE ONLY ON CAD SYSTEM		SH.	REV.
		INCH		METRIC		Ca		TITLE 48 pos. Male connector acc. DIN 41612 style R/2 contacts arrangement		SHEET NO. DATE 1 OF 1 97/04/09			
A	LTR	3 PLACE $\pm$. $\pm$		3 PLACE $\pm$. $\pm$		CHK'D BY	SIGN			PART NO.		DWG NO.	SIZE
		2 PLACE $\pm$. $\pm$		2 PLACE $\pm$. $\pm$		KN				85013-2127		SDA-85013-2127	A
		1 PLACE $\pm$. $\pm$		1 PLACE $\pm$. $\pm$		APP'D BY	SIGN			MOLEX® MOLEX EUROPE			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				JB							
		DESIGN DIMENSION ☐ MM ☐ IN.				SCALE							
		EQUIVALENT DIMENSION ☐ MM ☐ IN.											
		IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY											