

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

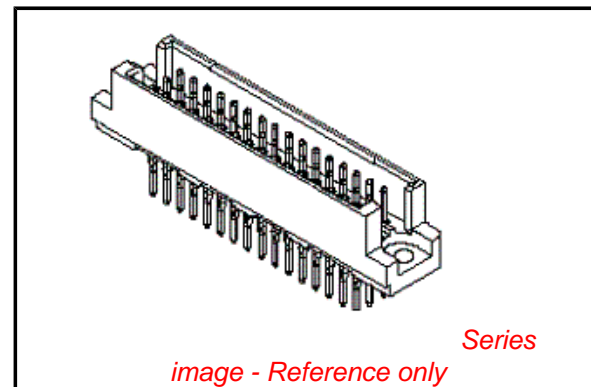
Product Family Backplane Connectors
 Series [85013](#)
 Application Backplane
 Component Type PCB Header
 Overview [din_41612](#)
 Product Name IEC 603-2/DIN 41612
 Style R/2

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)



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,

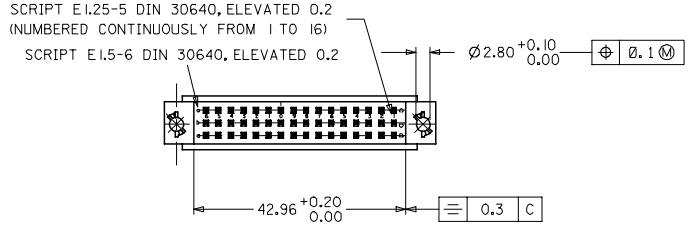
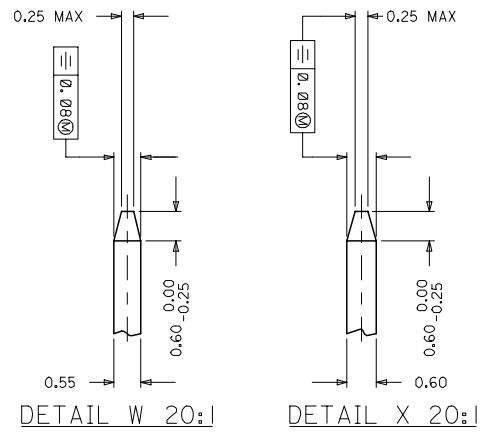
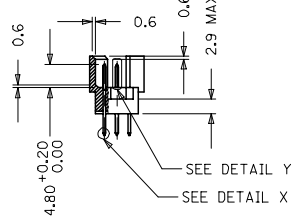
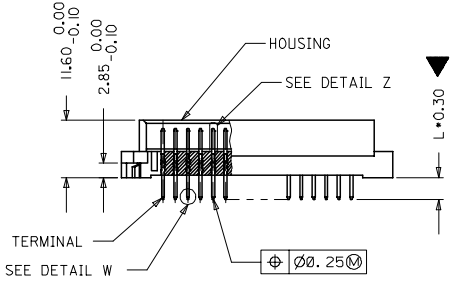
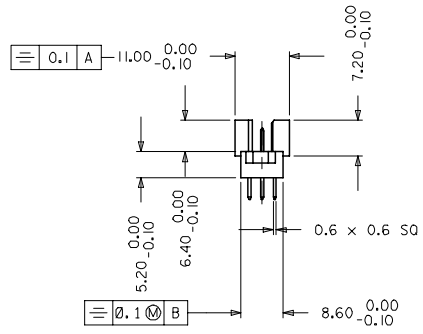
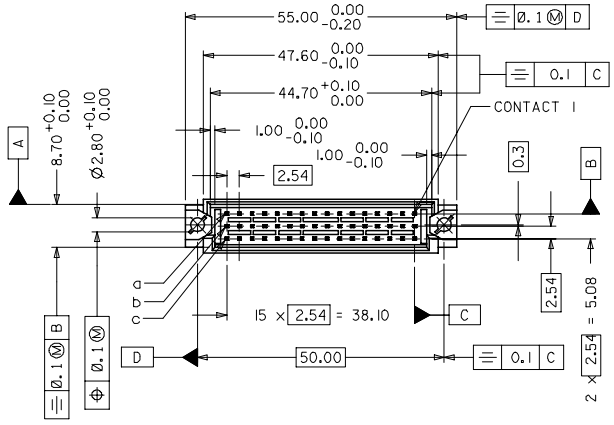
SDA-85013-0002, SDA-85013-0050

This document was generated on 05/17/2010

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NOTES:

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

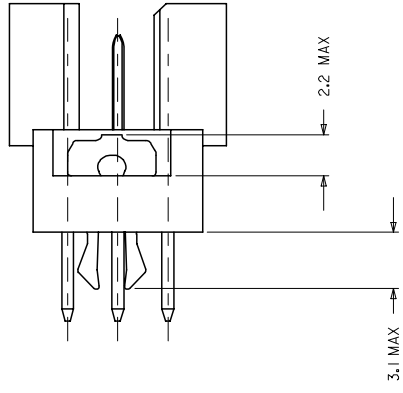
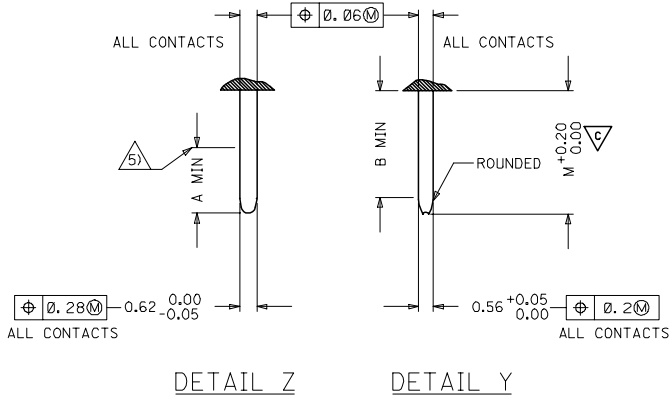


SCRIPT E1.25-5 DIN 30640, ELEVATED 0.2
(NUMBERED CONTINUOUSLY FROM 1 TO 16)
SCRIPT E1.5-6 DIN 30640, ELEVATED 0.2

EC NO. 12005-0092 DR: NISHIVASHA CH: K. PRASAD APPR: S. SUDHIR	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=1 ▽=0	mm INCH	MM ONLY	2:1	METRIC	
		4 PLACES ± --- ± --- 3 PLACES ± 0.005 ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.1 ± ---	DRAWN BY NS	DATE 2004/03/31	TITLE 48 POS. MALE CONNECTOR ACC. DIN 41612 STYLE R/2 CONTACTS	
		ANGULAR ± 2 °	CHECKED BY G. LOWE	DATE 2004/03/31	MOLEX INCORPORATED	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
			A1	E-85013-0002	1 OF 2	

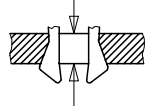
PRE MATING CONTACTS	5.4	4.1	4.8
NORMAL CONTACTS	4.8	3.5	4.2
	M	A	B

MALE CONNECTOR WITH MOUNTING CLIPS



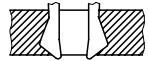
CLIPS SNAP UNDER
PC - BOARD OF
1.5 to 1.8 mm
 $F_m < 60\text{N}$
 $F_r \geq 20\text{N}$
 $F_r \geq 200\text{N}$, WHEN
SOLDERED IN
PLATED - THROUGH
FIXING HOLES

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



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

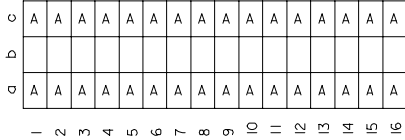
CLIPS STICK IN
FIXING HOLE OF
PC - BOARDS
OVER 1.8 mm
 $F_m < 60\text{N}$
 $F_r \geq 16\text{N}$



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

20 19 18 17 16 15 14 13 12 11 9 8 7 6 5 4 3 2 1

VIEW ON MATING SIDE



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

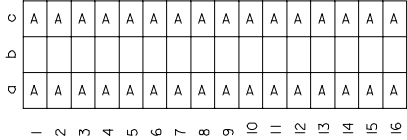
SL. NO.	DESCRIPTION	CONTACT SYMBOL	PART NUMBER	QTY
1	HOUSING		36520-0002	1
2	TERMINAL	A	36527-0005	32

EC NO. I 2004-XXXX DRAWN N.S. 31/03/04 CHK'd G.L. 31/03/04 APPR. G.L. 31/03/04	QUALITY SYMBOLS MAJOR \blacktriangledown CRITICAL ∇	GENERAL TOLERANCES: (UNLESS SPECIFIED) 4 PLACES $\pm 0.$ mm $\pm.$ INCH 3 PLACES $\pm 0.$ mm $\pm.$ INCH 2 PLACES $\pm 0.$ mm $\pm.$ INCH 1 PLACE $\pm 0.$ mm $\pm.$ INCH	SCALE DESIGN UNITS <input checked="" type="checkbox"/> MM <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION <input type="checkbox"/> 1ST ANGLE <input checked="" type="checkbox"/> 2ND ANGLE <input type="checkbox"/> 3RD ANGLE <input type="checkbox"/> 4TH ANGLE	DIMENSIONS: <input type="checkbox"/> MM <input type="checkbox"/> INCH <input checked="" type="checkbox"/> BOTH ONLY	SHT 1 REV REVISE ON CAD ONLY	
	DRAWN BY & DATE N.S. 31/03/04	CHECKED BY & DATE G.L. 31/03/04	APPROVED BY & DATE G.L. 31/03/04	TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT			
	CAD FILENAME E-85013-0050.S01		MATERIAL NO. 85013-0050	DRAWING NO. E-85013-0050	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.						

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

20 19 18 17 16 15 14 13 12 11 9 8 7 6 5 4 3 2 1



VIEW ON MATING SIDE



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	SD-85013-0002 SHT 1

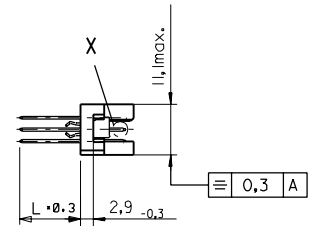
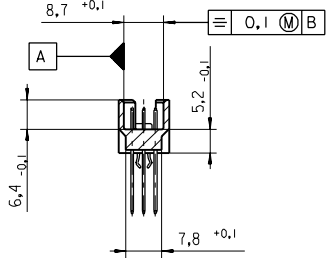
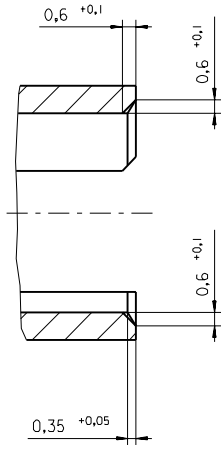
A	G2/0	a1-16 c1-16
CONTACT SYMBOL	PERFORMANCE LEVEL	CONTACT POSITION NUMBER

EC NO. I 2004-XXXX DRAWN NS 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 ±	SCALE <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY	SHT 1 REV	
	DRAWN BY & DATE NLS 17/03/03	CHECKED BY & DATE G.L. 17/03/03	APPROVED BY & DATE G.L. 17/03/03	THIRD ANGLE PROJECTION <input type="checkbox"/> 1st <input checked="" type="checkbox"/> 3rd	TITLE: 48 POS MALE CONNECTOR ACCORDING DIN 41612 STYLE R/2 CONTACTS ARRANGEMENT	REVISIONS REVISE ON CAD ONLY	
	CAD FILENAME SD-85013-0050.S0	MATERIAL NO. 85013-0050	DRAWING NO. SD-85013-0050	MOLEX INCORPORATED		SHEET NO. 1 OF 1	SIZE D
	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.				

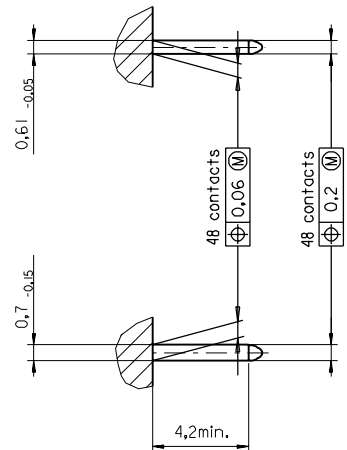
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

PART NO.
DWG. NO.

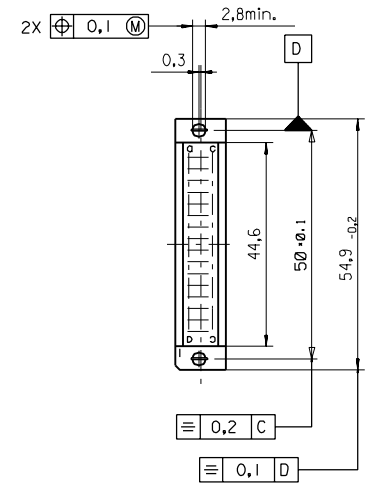
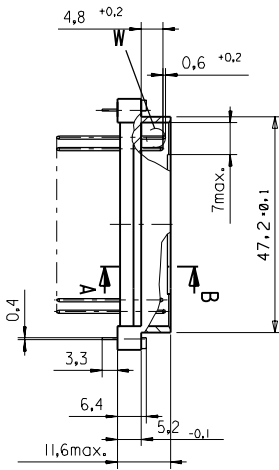
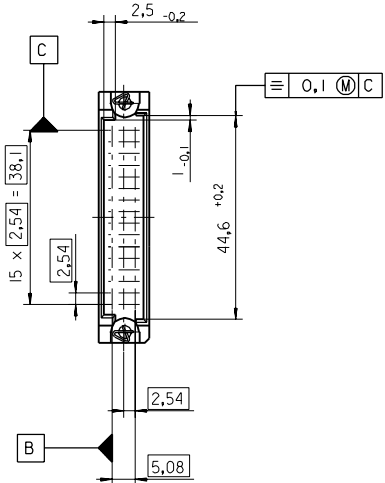
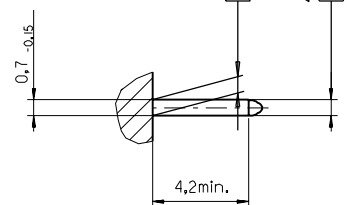
Section A - B
5:1



View X
5:1



View W
5:1



FIRST ANGLE PROJECTION REVISE ONLY ON CAD SYSTEM SH. REV.

BI	first release see ECN No. 1887	LTR	FOR PREVIOUS REVISIONS SEE MRI LIST	DRWG BY Ca	SIGN
	UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°		CHK'D BY KN		
			3 PLACE ± . ±		
			2 PLACE ± . ±		
			1 PLACE ± . ±		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APP'D BY	SIGN
			DESIGN DIMENSION <input checked="" type="checkbox"/> MM <input type="checkbox"/> IN.	SCALE	
			EQUIVALENT DIMENSION <input type="checkbox"/> MM <input type="checkbox"/> IN.		
			IF TWO DIMENSIONS ARE SHOWN THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY		

CAD/CAM PROJECT NAME 85013000 821	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
TITLE 48 pos. Male connector acc. DIN 41612 style R/2 Dimensions	
MOLEX EUROPE	SHEET NO. DATE 1 OF 95/06/08
PART NO. SDA-85013-0002	DWG NO. SIZE B

VIEW ON MATING SIDE

∩	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
∞																				
◁	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

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	a1-16	c1-16
Contact symbol	Perform. level	Contact position number	

first release see ECN No. 1868	REVISIONS		FOR PREVIOUS REVISIONS SEE MRI LIST	
	∇	LTR		
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 2°		DRWG BY	SIGN	CAD/CAM PROJECT NAME
INCH		Ca		s8501300
METRIC		CHK'D BY	SIGN	s51
3 PLACE ± .		KN		
2 PLACE ± .		APP'D BY	SIGN	
1 PLACE ± .				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		TITLE		
DESIGN DIMENSION <input type="checkbox"/> MM <input type="checkbox"/> IN.		48 pos. Male connector		
EQUIVALENT DIMENSION <input type="checkbox"/> MM <input type="checkbox"/> IN.		acc. DIN 41612 style R/2		
IF TWO DIMENSIONS ARE SHOWN, THE UPPER IS THE DESIGN DIMENSION, LOWER IS SECONDARY		contacts arrangement		
		MOLEX EUROPE		SHEET NO. DATE
		85013-0050		1 OF 1 95/06/07
		PART NO. DWG NO.		SIZE
		SDA-85013-0050		A

REVISE ONLY ON CAD SYSTEM SH. REV.

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MOLEX EUROPE

85013-0050

SDA-85013-0050

95/06/07



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.