

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **0877131005**

**Status:** **Active**

**Description:** 1.27mm (.050") Pitch Serial ATA Host Receptacle, Surface Mount, Vertical, Standard Height, with 1.05mm (.041") Plastic Locating Peg, 0.76µm (30µ") Gold (Au) Selective Plating, without Kapton Tape, Tray Packaging, 22 Circuits, Leadfree

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-87713-016 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Receptacles
Series	87713
Application	Board-to-Board
Comments	1.05mm (.041") Plastic Locating Peg
Product Literature Order No	SNG-029
Product Name	Serial ATA

**Physical**

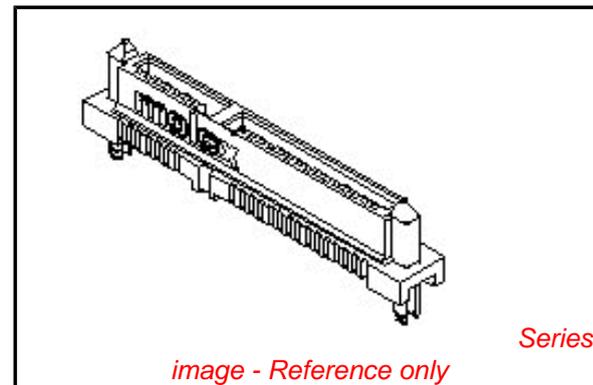
Circuits (Loaded)	22
Circuits Detail	Power 15 pins Signal 7 pins
Durability (mating cycles max)	500
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

**Electrical**

Current - Maximum per Contact	1.5A
Voltage - Maximum	30V

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260



**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Halogen-Free**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

87713Series

**Mates With**

87679 , 87799 , 87703

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-87713-016

Sales Drawing

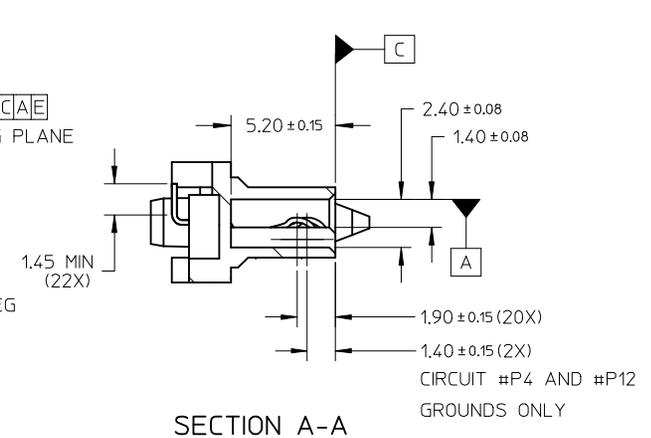
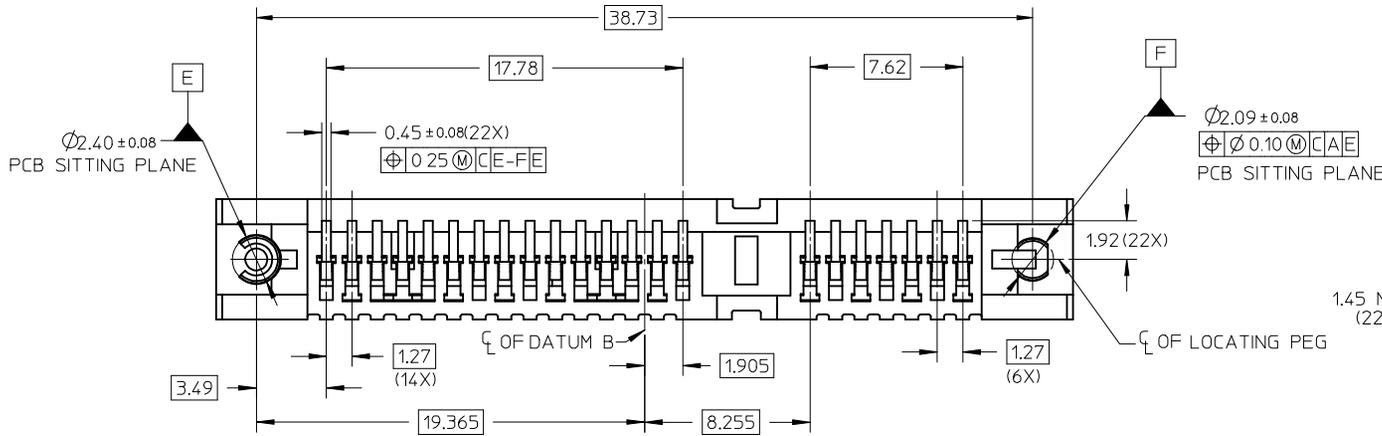
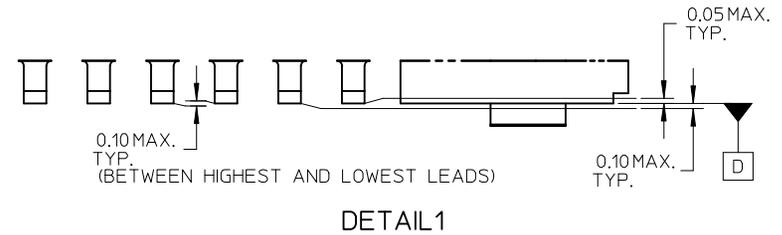
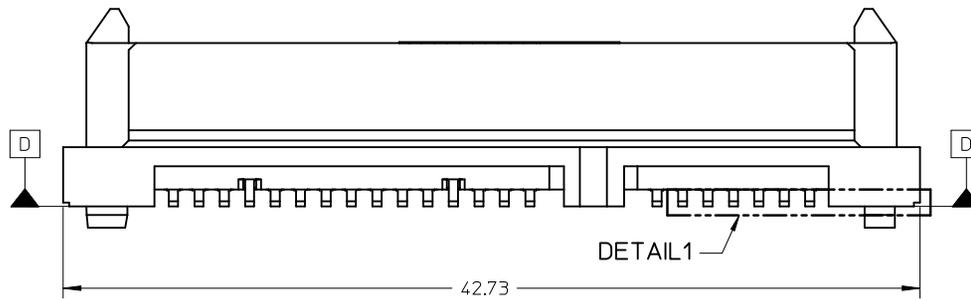
SD-87713-029

This document was generated on 03/29/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

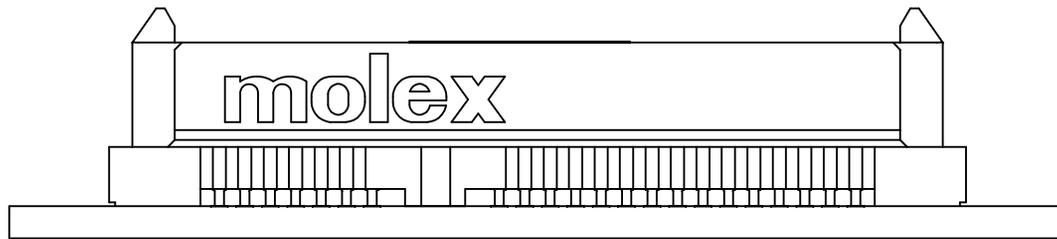
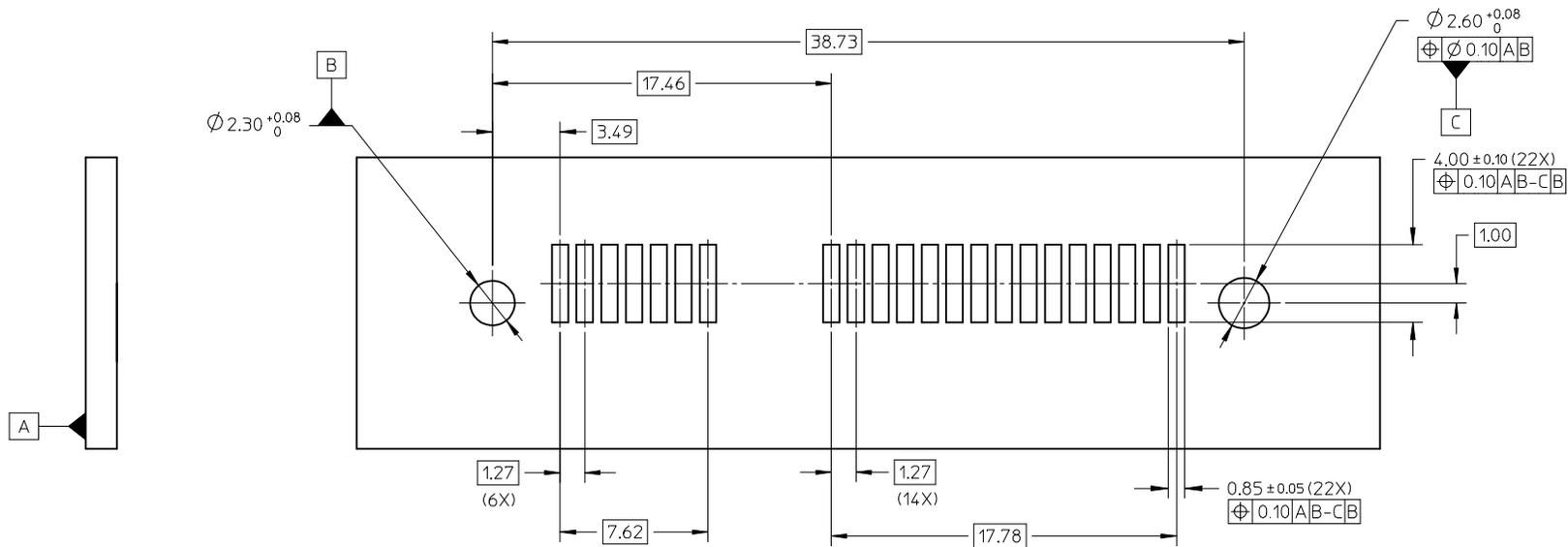


10 9 8 7 6 5 4 3 2 1



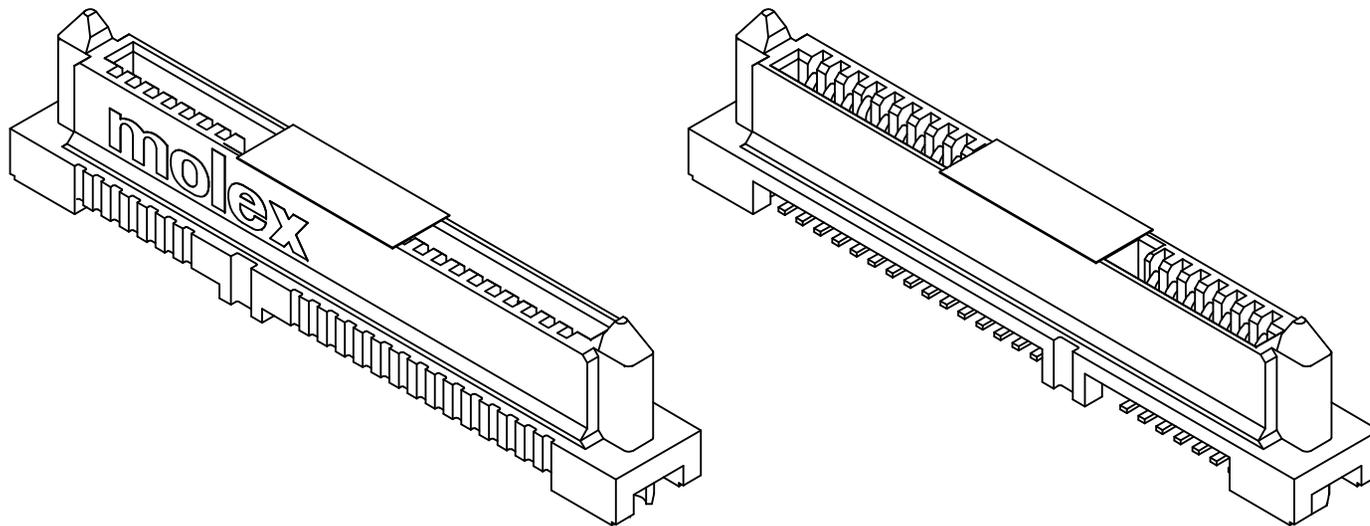
NEW KAPTON TAPE EC NO: S2009-0322 DRW:KHLIM CHKD:CGOH APPR:BOKOK	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY KHLIM	DATE 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT			
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2005/04/14	MOLEX INCORPORATED			
			3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2005/04/14				
2 PLACES	± 0.20	± ---	ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.	SHEET NO.				
1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	SEE TABLE				SD-87713-029	2 OF 5

9 8 7 6 5 4 3 2 1



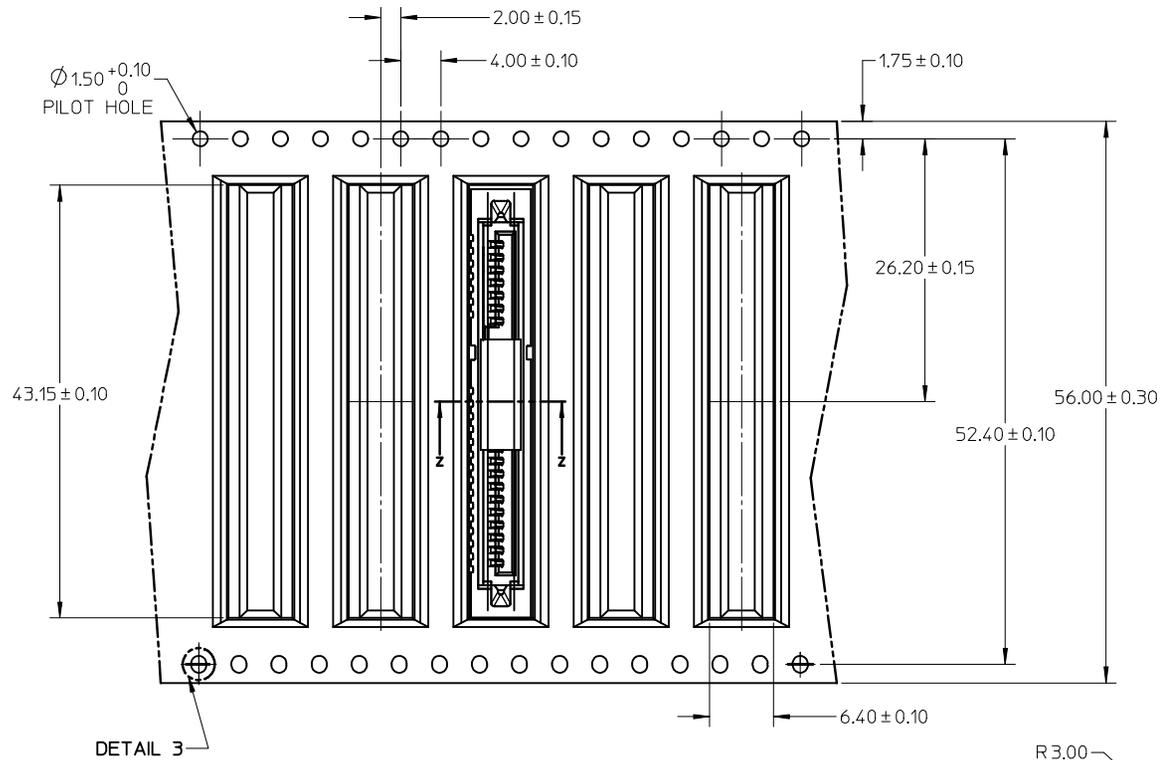
PCB THICKNESS: 1.60±0.10 mm  
RECOMMENDED PCB LAYOUT

<b>NEW KAPTON TAPE</b> EC NO: S2009-0322 DRW:KHLIM CHKD:CGOH APPR:BOKOK 2008/12/04 2008/12/04 2008/12/05	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION													
		<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.20</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	DRAWN BY: KHLIM DATE: 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT
		mm	INCH																
	4 PLACES	± ---	± ---																
3 PLACES	± ---	± ---																	
2 PLACES	± 0.20	± ---																	
1 PLACE	± ---	± ---																	
	ANGULAR ± 3 °	CHECKED BY: KCLING DATE: 2005/04/14	APPROVED BY: SKTOH DATE: 2005/04/14	MOLEX INCORPORATED															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87713-029	SHEET NO. 3 OF 5															



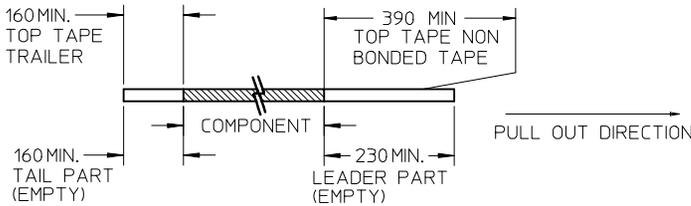
NEW KAPTON TAPE EC NO: S2009-0322 DRW:KHLIM 2008/12/04 CHKD:CGOH 2008/12/04 APPR:BOKOK 2008/12/05	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	mm INCH ± --- ± --- ± 0.20 ± --- ± --- ± ---	DRAWN BY KHLIM	DATE 2005/03/07	TITLE SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT				
			ANGULAR ± 3 °	APPROVED BY SKTOH	DATE 2005/04/14	MOLEX INCORPORATED					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87713-029	SHEET NO. 4 OF 5						

TAPE AND REEL PACKAGING

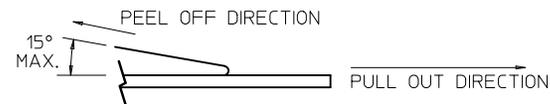


NOTES:

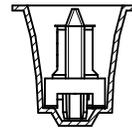
1. LEADER AND TRAILER TAPE



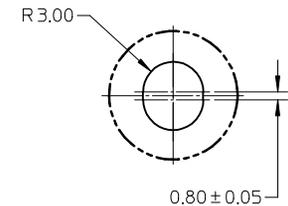
2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- 3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- 4. TAPE AND REEL QUANTITY : 400 PCS/ REEL.
- 5. THE TAPE IS TREATED FOR ANTI-STATIC.



SECTION Z-Z



DETAIL 3

NEW KAPTON TAPE EC NO: S2009-0322 DRW:KHLIM CHKD:CGOH APPR:BOKOK	2008/12/04 2008/12/04 2008/12/05	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			▽=0 ∇=0	mm INCH	MM ONLY	NTS	METRIC	⊙ □		
				4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± ---	DRAWN BY DATE KHLIM 2005/03/07	CHECKED BY DATE KCLING 2005/04/14	APPROVED BY DATE SKTOH 2005/04/14	TITLE	SERIAL ATA BACKPLANE SIL WITH 1.05 PEGS STD HEIGHT, RECEPT., SMT	
			ANGULAR ± 3 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	MOLEX INCORPORATED			
B3			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

## 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:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9