

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0459110039](#)
Status: **Active**
Description: 12.90mm (.508") Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 4 Segments (Power, Power, Power, Signal Sequence), Through Hole Solder for 1.57mm (.062") Thick PC Board

Documents:

[3D Model](#) [Product Specification PS-45719-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR 19980
TUV 30482572.001
UL E29179

General

Product Family Edge Card Connectors
Series [45911](#)
Component Type Edgecard to PCB
Product Name EXTreme PowerEdge™

Physical

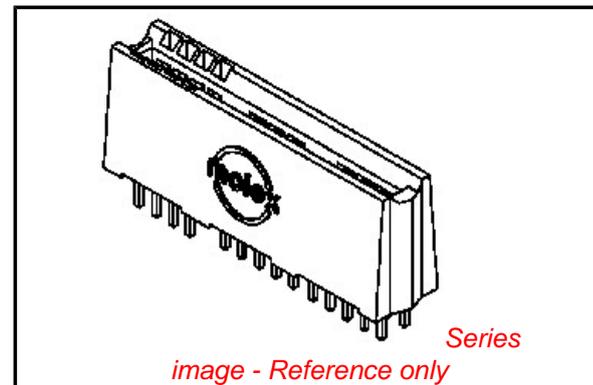
Circuits (Loaded) 14
Circuits (maximum) 14
Circuits Detail 2 Power, 2 Power, 2 Power, 8 Signal
Color - Resin Black
Durability (mating cycles max) 250
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part N/A
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
PC Tail Length (in) 0.126 In
PC Tail Length (mm) 3.19 mm
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.508 In
Pitch - Mating Interface (mm) 12.90 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.75
Plating min: Termination (µin) 150
Plating min: Termination (µm) 3.75
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 3A, 40A
Voltage - Maximum 250V

Solder Process Data

Duration at Max. Process Temperature (seconds) 5
Lead-free Process Capability Wave Capable (TH only)
Max. Cycles at Max. Process Temperature 1
Process Temperature max. C 250



EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**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

[45911Series](#)

Mates With

1.58mm (.062") double sided card edge

Material Info

Reference - Drawing Numbers

Product Specification

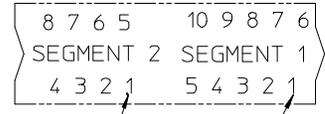
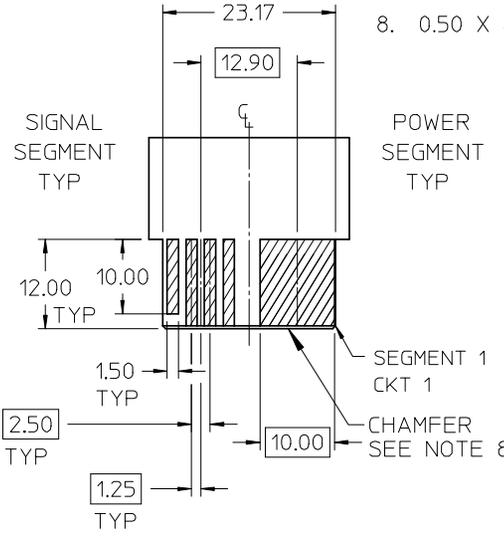
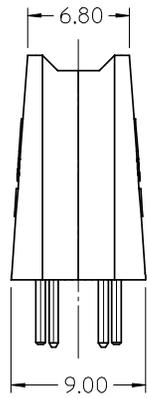
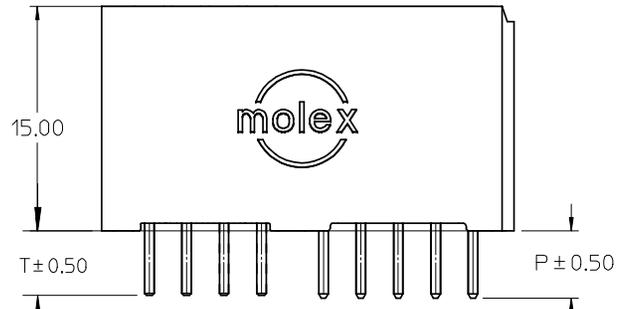
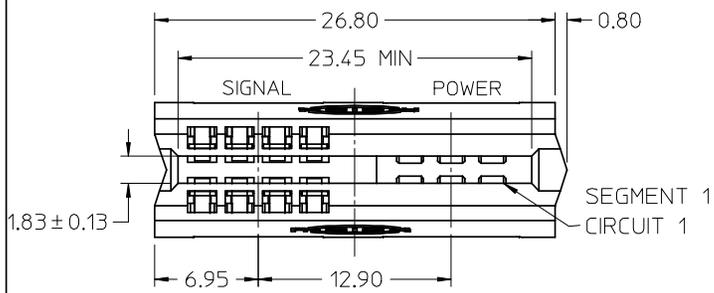
PS-45719-001

Sales Drawing

SD-45911-001

This document was generated on 04/09/2010

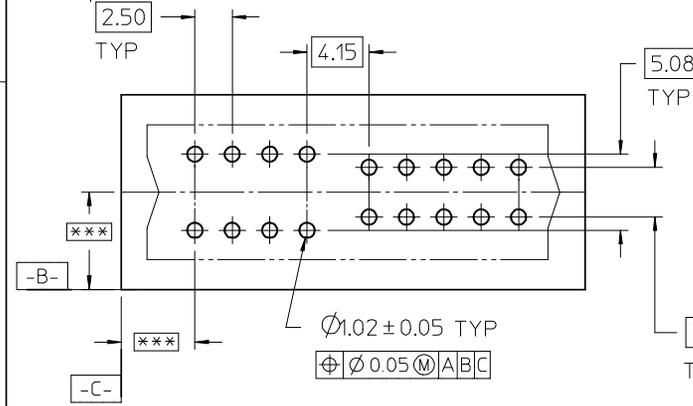
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



SEGMENT 2
CIRCUIT 1

SEGMENT 1
CIRCUIT 1

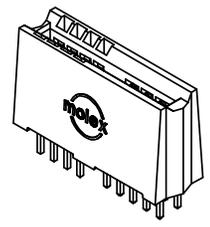
- NOTES:
- MATERIAL: HOUSING - LCP, UL94V-0, BLACK
MATERIAL: TERMINALS - COPPER ALLOY
 - FINISH: SELECT GOLD: 30 MI MIN IN CONTACT AREA
SELECT TIN: 150 MI MIN IN PC TAIL AREA
BOTH OVER NICKEL: 50 MI MIN
 - PRODUCT SPECIFICATION: PS-45719-001.
 - PACKAGING SPECIFICATION: PK-45714-001.
 - PCB THICKNESS: SEE CHART
 - EDGE CARD THICKNESS: 1.57±0.15
 - DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL ABOUT THOSE CENTERLINES WITHIN HALF THE TOTAL TOLERANCE.
 - 0.50 X 45° CHAMFER ON LEADING EDGE, TYP 4 SIDES.



PCB LAYOUT: COMPONENT SIDE
*** = TO BE DETERMINED BY CUSTOMER

MATERIAL NUMBER	SEGMENT 2	SEGMENT 1	DIM P		PCB THK
			DIM P	DIM T	
45911-0001	SIGNAL	POWER	4.50	3.18	3.18
45911-0002	POWER	SIGNAL	4.33	2.36	2.36
45911-0003	SIGNAL	POWER	3.19	1.57	1.57
45911-0004	POWER	SIGNAL	3.19	1.57	1.57
SEE 45844	SIGNAL	SIGNAL	---	---	---
SEE 45719	POWER	POWER	---	---	---

EDGE CARD LAYOUT:
TOLERANCE: ±0.05



REVISE G	REV	DESCRIPTION
	2008/04/16	2008/04/16
	2008/04/22	2008/04/22
	2008/04/25	2008/04/25
	2008/04/25	2008/04/25

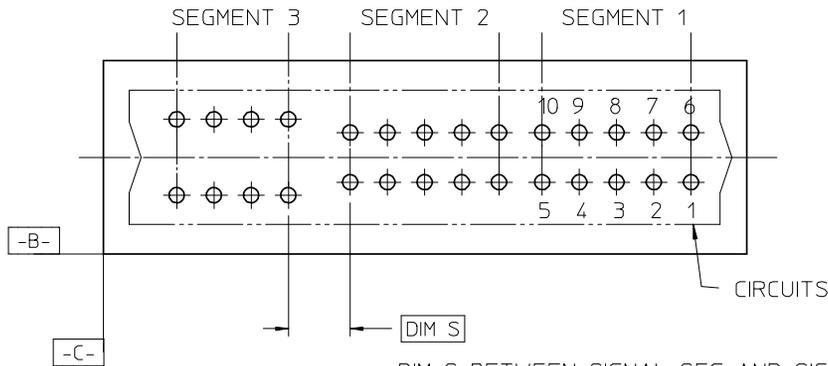
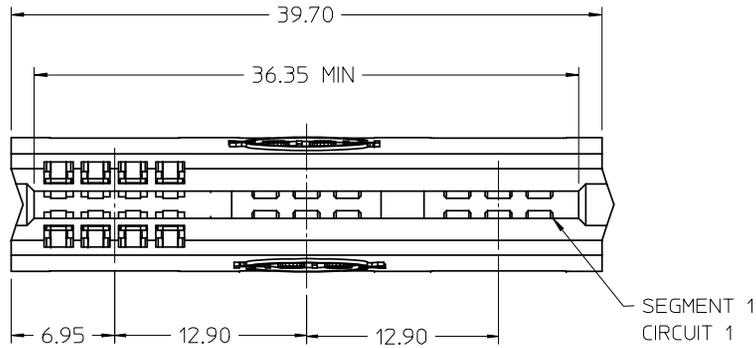
QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
SAMIEC	2005/04/14
CHECKED BY	DATE
SAMIEC	2005/04/14
APPROVED BY	DATE
MARGULIS	2005/04/14
MATERIAL NUMBER	SEE CHART
SIZE	A

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
2:1	METRIC	
TITLE		
POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL		
molex MOLEX INCORPORATED		
MATERIAL NUMBER	DOCUMENT NO.	SHEET NO.
SEE CHART	SD-45911-001	1 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

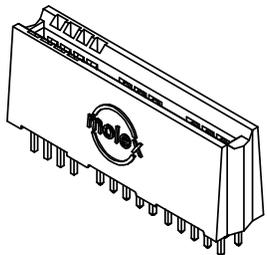
MATERIAL NUMBER: 45911-0007 SHOWN
 SEE SHEET ONE FOR ALL OTHER NOTES AND DIMENSIONS



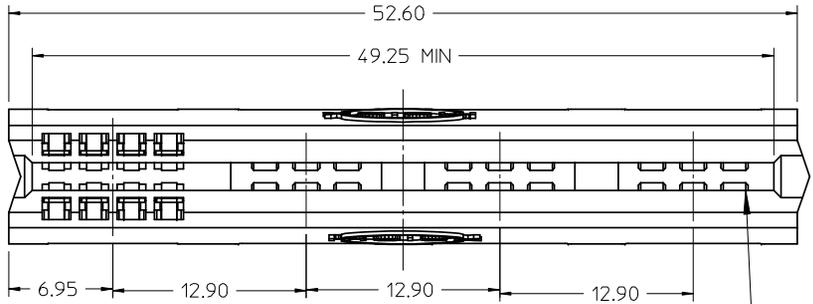
DIM S BETWEEN SIGNAL SEG AND SIGNAL SEG: 5.40
 DIM S BETWEEN POWER SEG AND POWER SEG: 2.90
 DIM S BETWEEN SIGNAL SEG AND POWER SEG: 4.15

PCB LAYOUT: COMPONENT SIDE

MATERIAL NUMBER	SEGMENT 3	SEGMENT 2	SEGMENT 1	DIM P DIM T	PCB THK
45911-0007	SIGNAL	POWER	POWER	4.50 4.33	3.18 2.36
45911-0008	POWER	SIGNAL	POWER		
45911-0009	SIGNAL	SIGNAL	POWER		
45911-0010	SIGNAL	POWER	SIGNAL		
45911-0011	POWER	SIGNAL	SIGNAL	3.19 3.19	1.57
45911-0012	POWER	POWER	SIGNAL		
45911-0013	SIGNAL	POWER	POWER		
45911-0014	POWER	SIGNAL	POWER		
45911-0015	SIGNAL	SIGNAL	POWER		
45911-0016	SIGNAL	POWER	SIGNAL		
45911-0017	POWER	SIGNAL	SIGNAL		
45911-0018	POWER	POWER	SIGNAL		

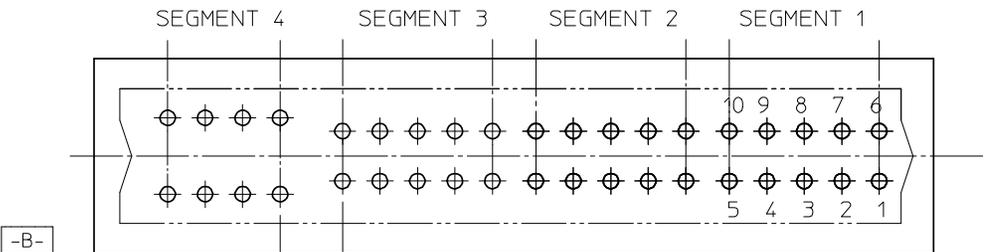


EC NO: UCP2008-2498 DRWN: JSCHAFER 2008/04/16 CHKD: 2008/04/22 APPR: APATEL 2008/04/25 REV G	QUALITY SYMBOLS DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY SAMIEC	DATE 2005/04/14	TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL		
		4 PLACES	± ---	± ---	CHECKED BY	DATE			
		3 PLACES	± ---	± ---	SAMIEC	2005/04/14	MOLEX INCORPORATED		
		2 PLACES	± 0.25	± ---	APPROVED BY	DATE			
1 PLACE	± 0.25	± ---	MARGULIS	2005/04/14	MATERIAL NUMBER SEE CHART		DOCUMENT NO. SD-45911-001	SHEET NO. 2 OF 4	
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							



SEGMENT 1
CIRCUIT 1

SEE CHART ON SHEET 4
FOR MATERIAL NUMBERS



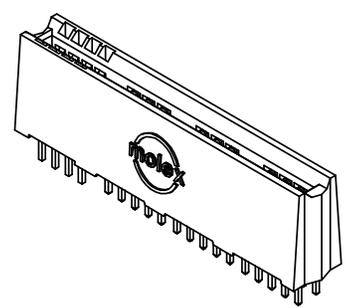
-B-

-C-

DIM S

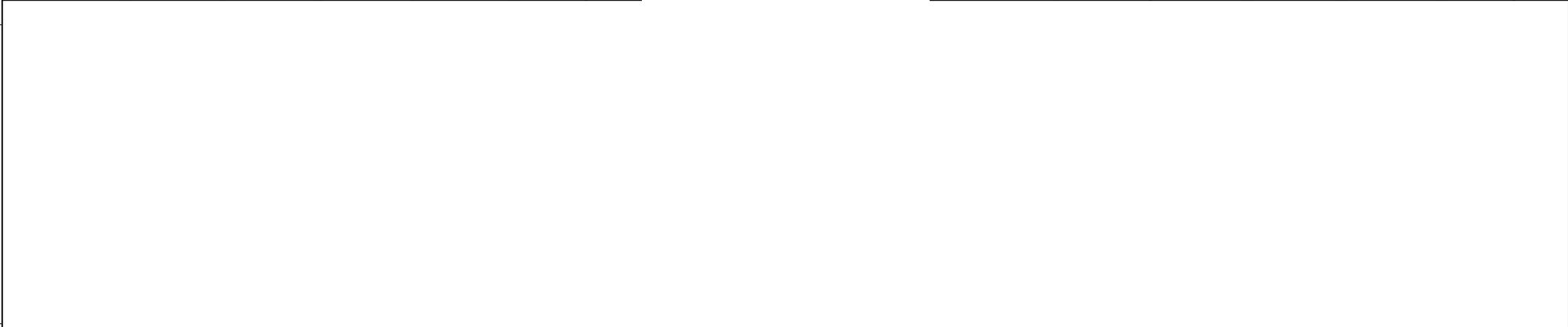
DIM S BETWEEN SIGNAL SEG AND SIGNAL SEG: 5.40
 DIM S BETWEEN POWER SEG AND POWER SEG: 2.90
 DIM S BETWEEN SIGNAL SEG AND POWER SEG: 4.15

PCB LAYOUT: COMPONENT SIDE



EC NO: UCP2008-2498 DRWN: JSCHAFFER 2008/04/16 CHKD: 2008/04/22 APPR: APATEL 2008/04/25 G	QUALITY SYMBOLS DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY SAMIEC	DATE 2005/04/14	TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL		
		4 PLACES	± ---	± ---	CHECKED BY SAMIEC	DATE 2005/04/14			
		3 PLACES	± ---	± ---	APPROVED BY MARGULIS	DATE 2005/04/14	molex MOLEX INCORPORATED		
		2 PLACES	± 0.25	± ---	MATERIAL NUMBER SEE CHART ON SHEET 4				
1 PLACE	± 0.25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

6		5			4		3		2			1	
MATERIAL NUMBER	SEGMENT 4	SEGMENT 3	SEGMENT 2	SEGMENT 1	$\frac{DIM P}{DIM T}$	PCB THK	MATERIAL NUMBER	SEGMENT 4	SEGMENT 3	SEGMENT 2	SEGMENT 1	$\frac{DIM P}{DIM T}$	PCB THK
45911-0025	SIGNAL	POWER	POWER	POWER	$\frac{4.50}{4.33}$	3.18 2.36	45911-0039	SIGNAL	POWER	POWER	POWER	$\frac{3.19}{3.19}$	1.57
45911-0026	POWER	SIGNAL	POWER	POWER			45911-0040	POWER	SIGNAL	POWER	POWER		
45911-0027	SIGNAL	SIGNAL	POWER	POWER			45911-0041	SIGNAL	SIGNAL	POWER	POWER		
45911-0028	SIGNAL	POWER	SIGNAL	POWER			45911-0042	SIGNAL	POWER	SIGNAL	POWER		
45911-0029	POWER	SIGNAL	SIGNAL	POWER			45911-0043	POWER	SIGNAL	SIGNAL	POWER		
45911-0030	POWER	POWER	SIGNAL	POWER			45911-0044	POWER	POWER	SIGNAL	POWER		
45911-0031	SIGNAL	SIGNAL	SIGNAL	POWER			45911-0045	SIGNAL	SIGNAL	SIGNAL	POWER		
45911-0032	SIGNAL	POWER	POWER	SIGNAL			45911-0046	SIGNAL	POWER	POWER	SIGNAL		
45911-0033	POWER	SIGNAL	POWER	SIGNAL			45911-0047	POWER	SIGNAL	POWER	SIGNAL		
45911-0034	SIGNAL	SIGNAL	POWER	SIGNAL			45911-0048	SIGNAL	SIGNAL	POWER	SIGNAL		
45911-0035	SIGNAL	POWER	SIGNAL	SIGNAL			45911-0049	SIGNAL	POWER	SIGNAL	SIGNAL		
45911-0036	POWER	SIGNAL	SIGNAL	SIGNAL			45911-0050	POWER	SIGNAL	SIGNAL	SIGNAL		
45911-0037	POWER	POWER	SIGNAL	SIGNAL			45911-0051	POWER	POWER	SIGNAL	SIGNAL		
45911-0038	POWER	POWER	POWER	SIGNAL			45911-0052	POWER	POWER	POWER	SIGNAL		



EC NO: UCP2008-2498 DRWN: JSCHAFER CHKD: APPR: APATEL 2008/04/25 DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY SAMIEC	DATE 2005/04/14	TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL MOLEX INCORPORATED		
	4 PLACES	± ---	± ---	CHECKED BY SAMIEC	DATE 2005/04/14			
	3 PLACES	± ---	± ---					
	2 PLACES	± 0.25	± ---					
	1 PLACE	± 0.25	± ---					
	ANGULAR ±1/2°		MATERIAL NO. SEE CHART	MARGULIS	2005/04/14	DOCUMENT NO. SD-45911-001	SHEET NO. 4 OF 4	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A	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

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9