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Part Number:

0459110050

Status:

Active

Overview:

Description:

12.90mm (.508") Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 4 Segments (Signal, Signal, Signal, Power Sequence), Through Hole Solder for 1.57mm (.062") Thick PC Board

Agency Certification

CSA	LR 19980
TUV	30482572.001
UL	E29179

General

Product Family	Edge Card Connectors
Series	45911
Component Type	Edgecard to PCB
Overview	edge_card_connectors
Product Name	EXTreme PowerEdge™

Physical

Circuits (Loaded)	26
Circuits (maximum)	26
Circuits Detail	8 Signal, 8 Signal, 8 Signal, 2 Power
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

Material Info

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
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

Reference - Drawing Numbers

Packaging Specification	PK-45714-001
Product Specification	PS-45719-001
Sales Drawing	SD-45911-001

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*** = TO BE DETERMINED BY CUSTOMER



SEGMENT 1
CKT 1

CHAMFER
SEE NOTE 8



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

1. MATERIAL: HOUSING - LCP, UL94V-0, BLACK
MATERIAL: TERMINALS - COPPER ALLOY
2. FINISH: SELECT GOLD: 30 MI MIN IN CONTACT AREA
SELECT TIN: 150 MI MIN IN PC TAIL AREA
BOTH OVER NICKEL: 50 MI MIN
3. PRODUCT SPECIFICATION: PS-45719-001.
4. PACKAGING SPECIFICATION: PK-45714-001.
5. PCB THICKNESS: SEE CHART
6. EDGE CARD THICKNESS: 1.57 ± 0.15
7. DIMENSIONS GIVEN ACROSS CENTERLINES ARE
SYMMETRICAL ABOUT THOSE CENTERLINES
WITHIN HALF THE TOTAL TOLERANCE.
8. $0.50 \times 45^\circ$ CHAMFER ON LEADING EDGE, TYP 4 SIDES.

REV	DESCRIPTION	QUALITY SYMBOLS
G	REVSE SLOT TOLRANCE EC NO: UCP2008-2498 DRWN: JSCHAER 2008/04/16 CHK'D: 2008/04/22 APPR: APATEL 2008/04/25	

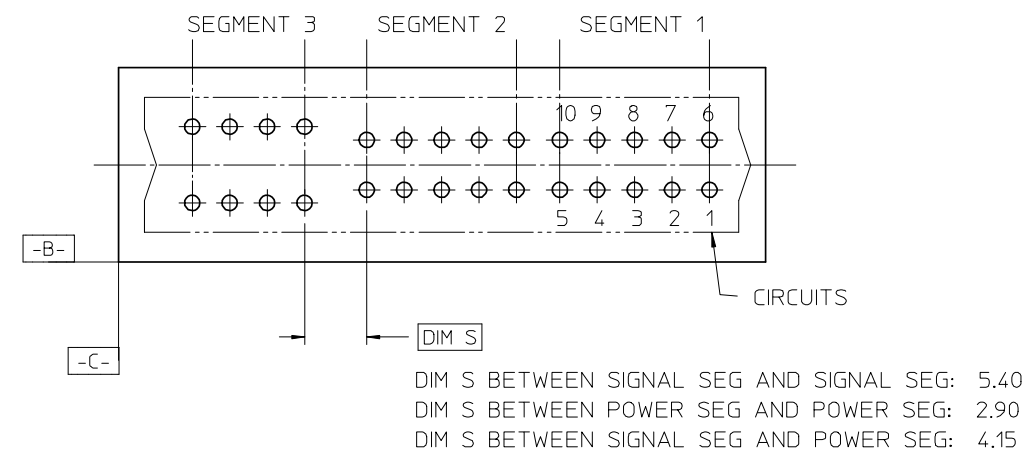
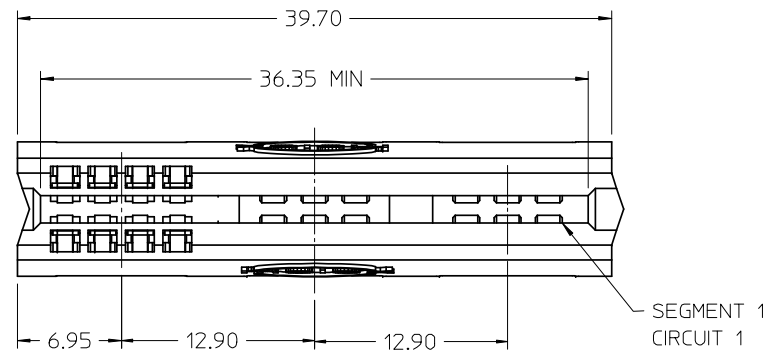
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± .---	± .---
3 PLACES	± .---	± .---
2 PLACES	± 0.25	± .---
1 PLACE	± 0.25	± .---
ANGULAR ±1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
SAMIEC	2005/04/11
CHECKED BY	DATE
SAMIEC	2005/04/11
APPROVED BY	DATE
MARGULIS	2005/04/11
MATERIAL NUMBER	
SEE CHART	
SIZE	THIS DRAWING CONTAINS INCORPORATED AND
A	

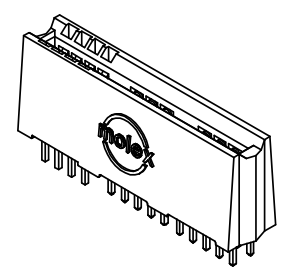
SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-45911-001		SHEET NO. 1 OF 4
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

6 5 4 3 2 1

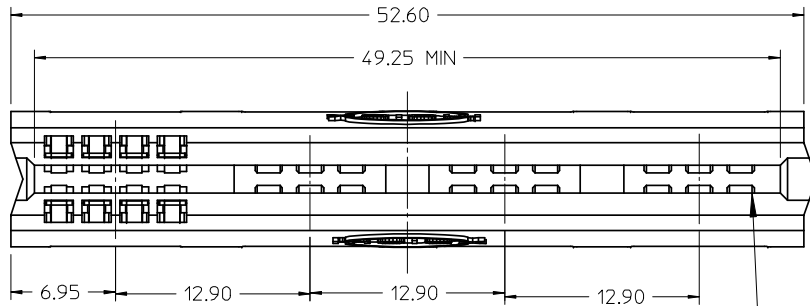
MATERIAL NUMBER: 45911-0007 SHOWN
SEE SHEET ONE FOR ALL OTHER NOTES AND DIMENSIONS



MATERIAL NUMBER	SEGMENT 3	SEGMENT 2	SEGMENT 1	$\frac{DIM P}{DIM T}$	PCB THK
45911-0007	SIGNAL	POWER	POWER	$\frac{4.50}{4.33}$	3.18 2.36
45911-0008	POWER	SIGNAL	POWER		
45911-0009	SIGNAL	SIGNAL	POWER		
45911-0010	SIGNAL	POWER	SIGNAL		
45911-0011	POWER	SIGNAL	SIGNAL		
45911-0012	POWER	POWER	SIGNAL	$\frac{3.19}{3.19}$	1.57
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		

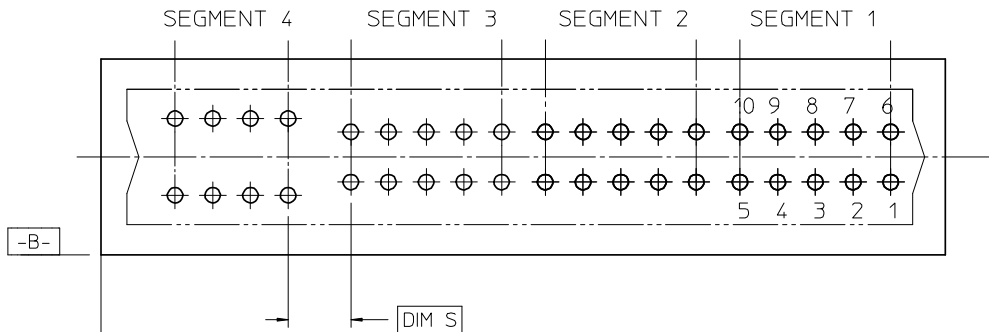


EC NO: UCP2008-2498 DRWN: JSCHAFFER 2008/04/16 CHKD: 2008/04/22 APPR: APATEL 2008/04/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY SAMIEC		DATE 2005/04/14	TITLE POWER EDGE ASSEMBLY 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				
	ANGULAR ±1/2°			MATERIAL NUMBER SEE CHART		DOCUMENT NO. SD-45911-001				SHEET NO. 2 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								



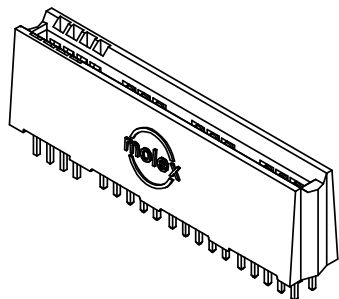
SEGMENT 1
CIRCUIT 1

SEE CHART ON SHEET 4
FOR MATERIAL NUMBERS

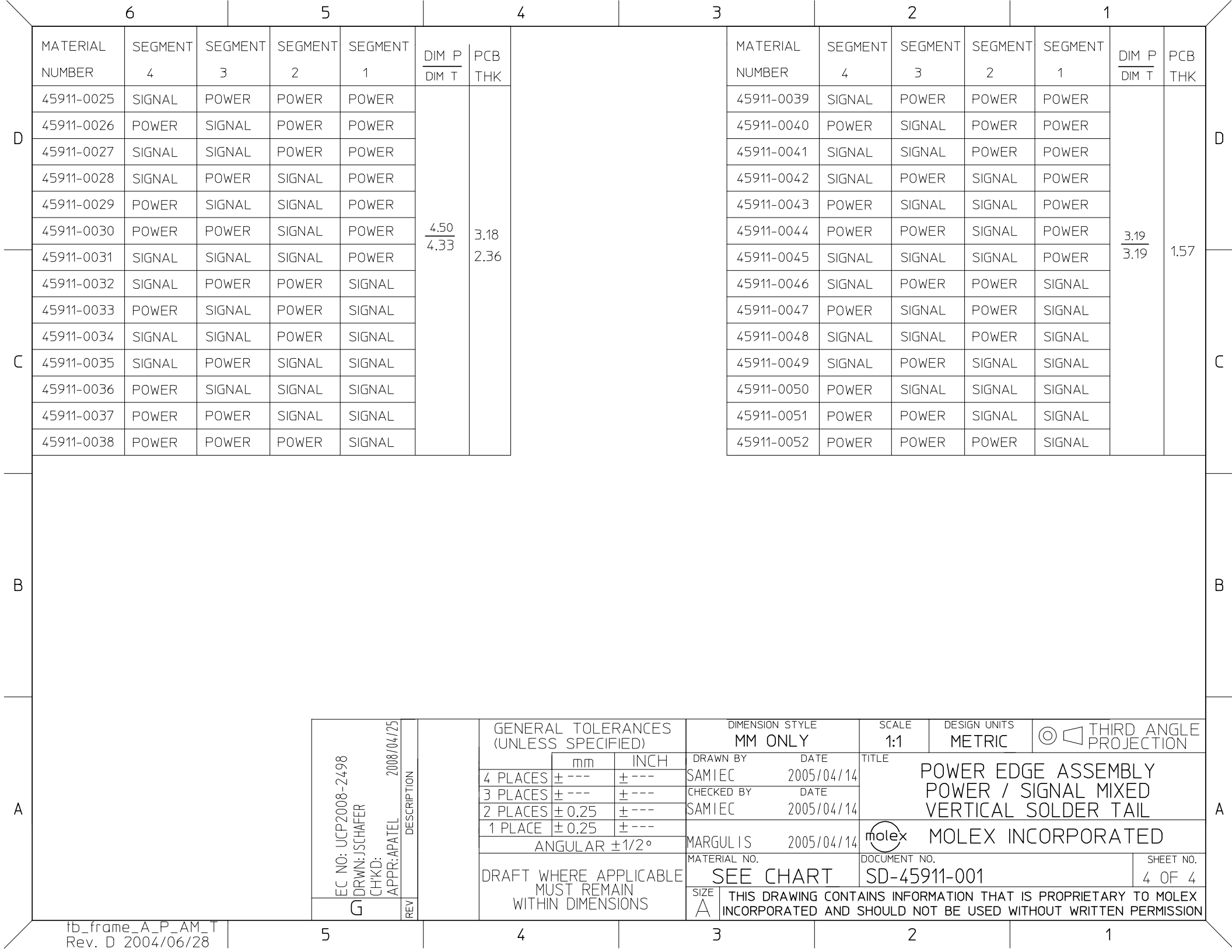


DIM S BETWEEN SIGNAL SEG AND SIGNAL SEG: 5.40
DIM S BETWEEN POWER SEG AND POWER SEG: 2.90
DIM S BETWEEN SIGNAL SEG AND POWER SEG: 4.15

PCB LAYOUT: COMPONENT SIDE



EC NO: UCP2008-2498 DRWN: JSCHAFER CHKD: 2008/04/22 APPR: APATEL 2008/04/25		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY DATE		TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL			
				4 PLACES	± ---	± ---	SAMI EC 2005/04/14					
				3 PLACES	± ---	± ---	CHECKED BY DATE					
G		REV		2 PLACES	± 0.25	± ---	SAMI EC 2005/04/14		MOLEX INCORPORATED			
				1 PLACE	± 0.25	± ---	APPROVED BY DATE					
				ANGULAR ±1/2°			MARGULIS 2005/04/14					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NUMBER SEE CHART ON SHEET 4		DOCUMENT NO. SD-45911-001		SHEET NO. 3	
SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											



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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
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- Входной контроль качества.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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