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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

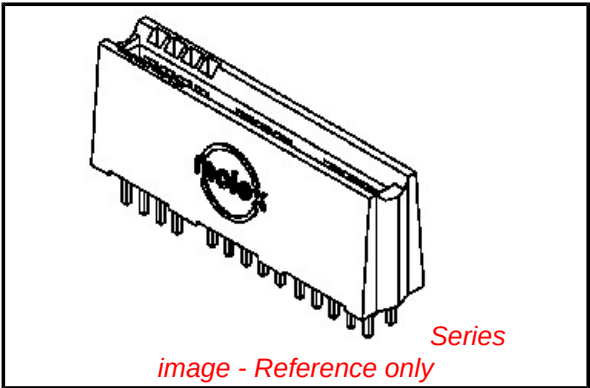
Circuits (Loaded) 14
Circuits (maximum) 14
Circuits Detail 2 Power, 2 Power, 2 Power, 8 Signal
Color - Resin Black
Durability (mating cycles max) 250
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part N/A
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - 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

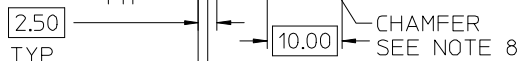
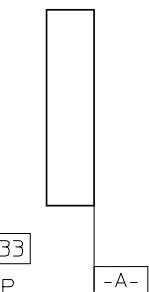
Material Info

Reference - Drawing Numbers

Product Specification	PS-45719-001
Sales Drawing	SD-45911-001

This document was generated on 04/09/2010

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8	MATERIAL	SEGMENT	SEGMENT	DIM P	PCB
	NUMBER	2	1	DIM T	THK
	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	---	---	

*** = TO BE DETERMINED BY CUSTOMER

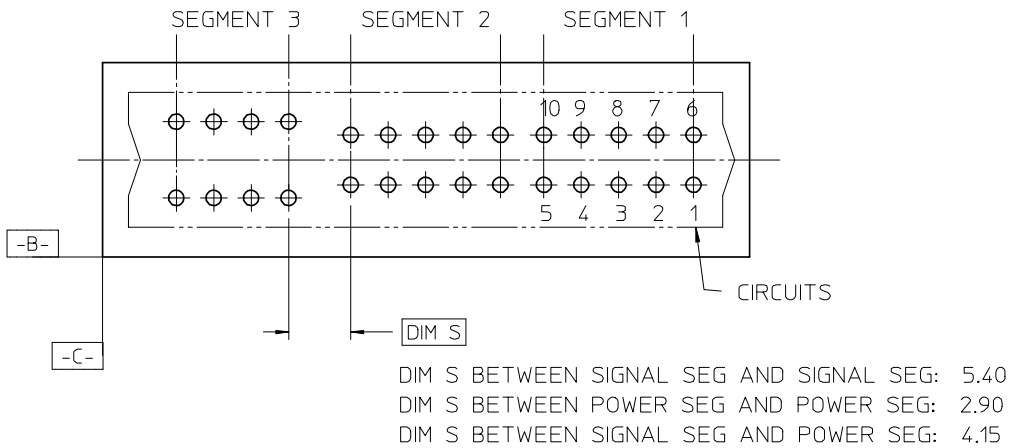
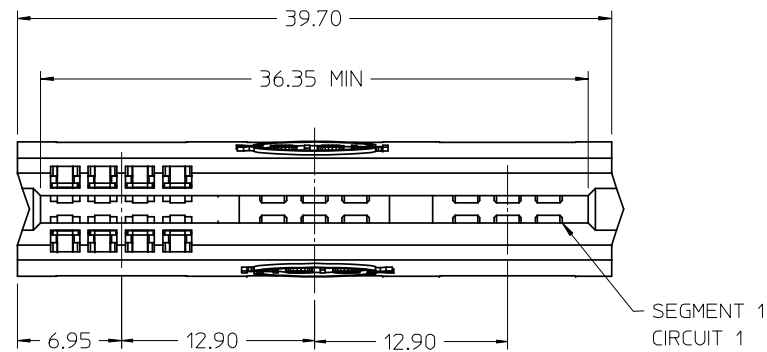


REVSE SLOT TOLRNC										EC NO: UCP2008-2498										DRWN: JSCHAFER										2008/04/16										CHKD:										2008/04/22										APPR: APATEL										2008/04/25										DESCRIPTION										QUALITY SYMBOLS										GENERAL TOLERANCES (UNLESS SPECIFIED)										DIMENSION STYLE MM ONLY										SCALE 2:1										DESIGN UNITS METRIC										 THIRD ANGLE PROJECTION										SEE 45719										POWER										POWER										---										---									
G										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										ANGULAR $\pm 1/2^\circ$										4 PLACES										$\pm$ ---										$\pm$ ---										DRAWN BY										DATE										TITLE POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL																																																																																																																							
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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 X 45° CHAMFER ON LEADING EDGE, TYP 4 SIDES.

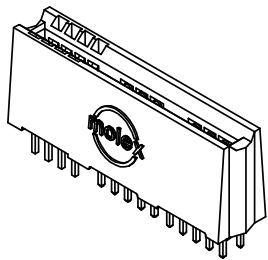
EDGE CARD LAYOUT:
TOLERANCE: ± 0.05

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

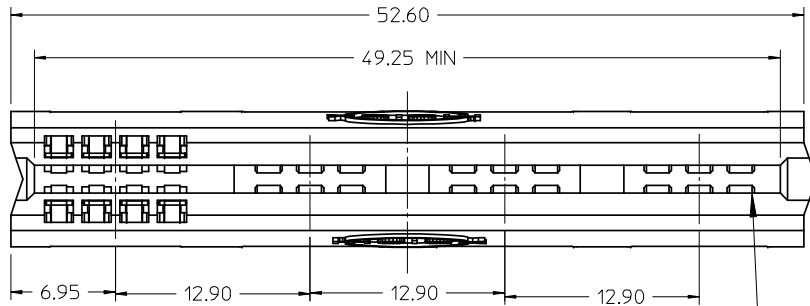


PCB LAYOUT: COMPONENT SIDE

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		

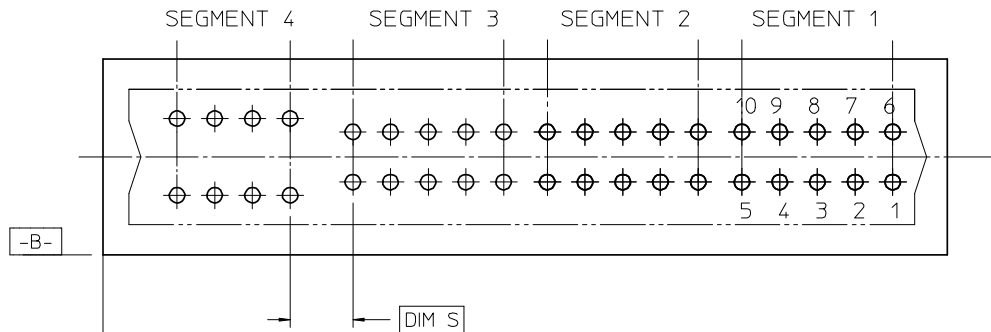


EC NO: UCP2008-2498		2008/04/16		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
DRWN: JSCHAFFER		2008/04/22						MM ONLY		1:1	METRIC		
CHKD:		2008/04/25						DRAWN BY DATE		TITLE	POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL MOLEX MOLEX INCORPORATED		
APPR: APATEL								2005/04/14					
								CHECKED BY DATE					
						2005/04/14							
						2 PLACES ± 0.25 ± ---		SAMIEC 2005/04/14					
						1 PLACE ± 0.25 ± ---		APPROVED BY DATE					
						ANGULAR ±1/2°		MARGULIS 2005/04/14					
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NUMBER		DOCUMENT NO.		SHEET NO.	
								SEE CHART		SD-45911-001		2 OF 4	
								SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
								A					



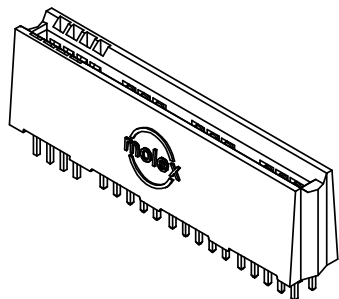
SEGMENT 1
CIRCUIT 1

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: APPR: APATEL	2008/04/16 2008/04/22 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 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					
				2 PLACES	± 0.25	± ---	MATERIAL NUMBER SEE CHART ON SHEET 4		DOCUMENT NO. SD-45911-001		SHEET NO. 3		
				1 PLACE	± 0.25	± ---							
				ANGULAR ±1/2°			MOLEX MOLEX INCORPORATED						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
REV				SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

