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Part Number: [0459110003](#)
Status: **Active**
Overview: [edge_card_connectors](#)
Description: 12.90mm (.508") Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 2 Segments (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
Overview	edge_card_connectors
Product Name	EXTreme PowerEdge™

Physical

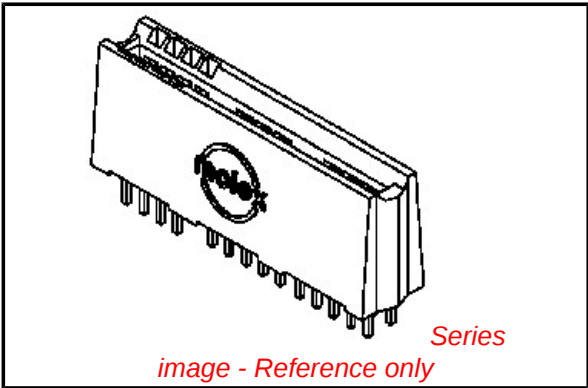
Circuits (Loaded)	10
Circuits (maximum)	10
Circuits Detail	2 Power, 8 Signal
Color - Resin	Black
Durability (mating cycles max)	250
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Keying to Mating Part	N/A
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	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)



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

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	250

Material Info

Reference - Drawing Numbers

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

This document was generated on 06/04/2010

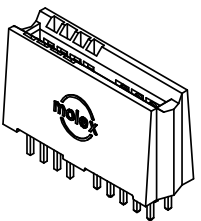
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- NOTES:
- MATERIAL: HOUSING - LCP, UL94V-0, BLACK
MATERIAL: TERMINALS - COPPER ALLOY
 - FINISH: SELECT GOLD: 30 MI MIN IN CONTACT AREA
SELECT TIN: 150 MI MIN IN PC TAIL AREA
BOTH OVER NICKEL: 50 MI MIN
 - PRODUCT SPECIFICATION: PS-45719-001.
 - PACKAGING 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.

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

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	DOCUMENT NO.	SHEET NO.
			mm	INCH	MM ONLY	DATE						
4	PLACES	± ---	± ---	± ---	SAMIEC	2005/04/14	2:1	METRIC	☉	POWER EDGE ASSEMBLY POWER / SIGNAL MIXED VERTICAL SOLDER TAIL	SD-45911-001	1 OF 4
3	PLACES	± ---	± ---	± ---	CHECKED BY	DATE						
2	PLACES	± 0.25	± ---	± ---	SAMIEC	2005/04/14						
1	PLACE	± 0.25	± ---	± ---	APPROVED BY	DATE						
					MARGULIS	2005/04/14						
					MATERIAL NUMBER SEE CHART							
					SIZE							
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

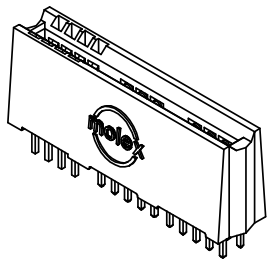


MATERIAL NUMBER: 45911-0007 SHOWN
SEE SHEET ONE FOR ALL OTHER NOTES AND DIMENSIONS



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			
APPR: APATEL								4 PLACES		± ---	± ---	2005/04/14	POWER EDGE ASSEMBLY	
								3 PLACES		± ---	± ---	DATE	POWER / SIGNAL MIXED	
						2 PLACES		± 0.25	± ---	2005/04/14	VERTICAL SOLDER TAIL			
						1 PLACE		± 0.25	± ---	DATE	MOLEX INCORPORATED			
						ANGULAR		± 1/2°	MARGULIS	2005/04/14				
						DRAFT WHERE APPLICABLE		MATERIAL NUMBER		DOCUMENT NO.		SHEET NO.		
						MUST REMAIN		SEE CHART		SD-45911-001		2 OF 4		
						WITHIN DIMENSIONS		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: 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 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	± ---	molex MOLEX INCORPORATED				
			1 PLACE	± 0.25	± ---					
			ANGULAR ±1/2°			MATERIAL NUMBER SEE CHART ON SHEET 4		DOCUMENT NO. SD-45911-001		
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					

