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Part Number: [0458440004](#)
Status: **Active**
Overview: [edge_card_connectors](#)
Description: 2.50mm (.098") Pitch EXTreme PowerEdge™, Signal Connector, Double Sided, 2 Segments (8 Signal Contacts Per Segment), 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
UL E29179

General

Product Family Edge Card Connectors
Series [45844](#)
Component Type Edgecard to PCB
Overview [edge_card_connectors](#)
Product Name EXTreme PowerEdge™

Physical

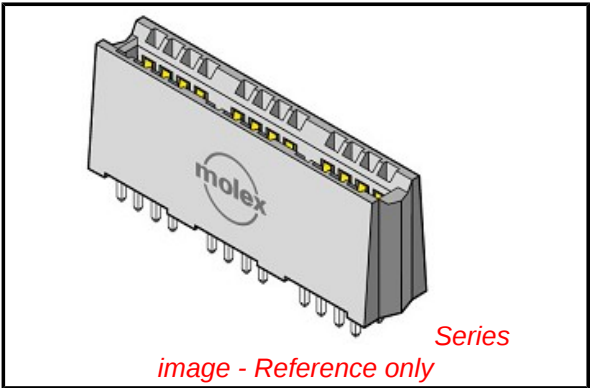
Circuits (Loaded) 16
Circuits (maximum) 16
Circuits Detail All Signal
Color - Resin Black
Durability (mating cycles max) 250
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part N/A
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
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) 0.098 In
Pitch - Mating Interface (mm) 2.50 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
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



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

[45844Series](#)

Mates With

1.58mm (.062") double sided card edge

Process Temperature max. C250

Material Info

Reference - Drawing Numbers

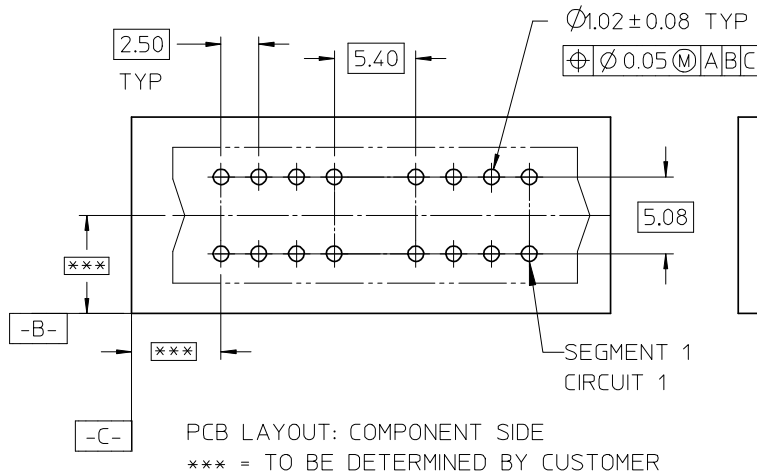
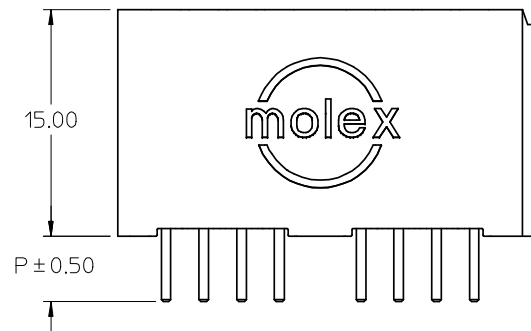
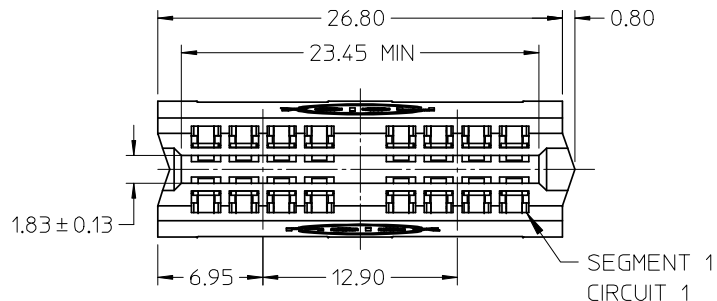
Packaging SpecificationPK-45714-001

Product SpecificationPS-45719-001

Sales DrawingSD-45844-001

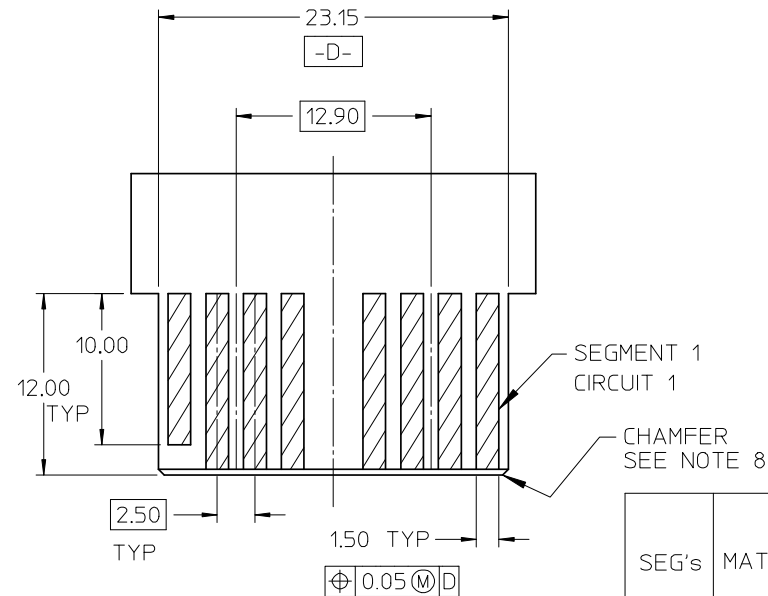
This document was generated on 06/04/2010

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NOTES:

1. HOUSING MATL: LCP, UL94V-0, BLACK
TERMINAL MATL: COPPER ALLOY
2. FINISH: SELECT GOLD: 30 M.I. MIN IN CONTACT AREA
SELECT TIN: 150 M.I. MIN IN SOLDER AREA
BOTH OVER NICKEL: 50 M.I. 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.



RECOMMENDED EDGE CARD LAYOUT
TOLERANCE: ± 0.05

SEG's	MATERIAL NUMBER	DIM P	PCB THK
2	45844-0001	4.33	3.18/2.36
2	45844-0004	3.19	1.57

REVISE SLOT TOL. EC NO: UCP2008-2498 DRWN:JSCHAFER 2008/04/16 CHKD: 2008/04/22 APPR:APATEL 2008/04/25 D	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY MARGULIS		DATE 2004/07/29	TITLE POWER EDGE ASSEMBLY SIGNAL VERTICAL SOLDER TAIL MOLEX INCORPORATED				
		4 PLACES	± ---	± ---	CHECKED BY		DATE					
		3 PLACES	± ---	± ---	MARGULIS		2004/07/29					
		2 PLACES	± 0.25	± ---	APPROVED BY		DATE					
		1 PLACE	± ---	± ---	MARGULIS		2004/07/29	DOCUMENT NO. SD-45844-001				
		ANGULAR ±1/2°			SEE CHART			SHEET NO. 1 OF 3				
		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					

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5

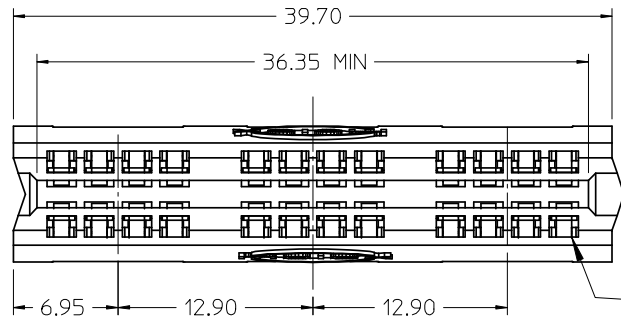
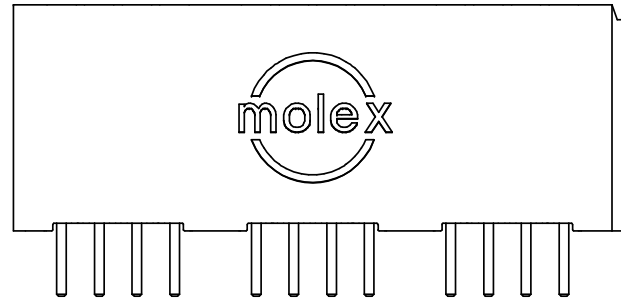
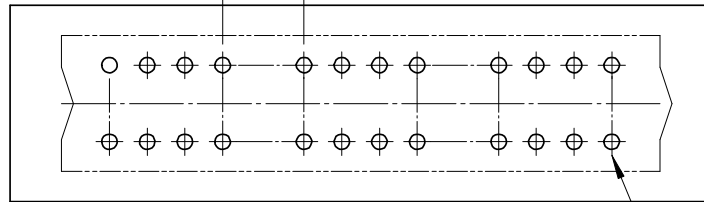
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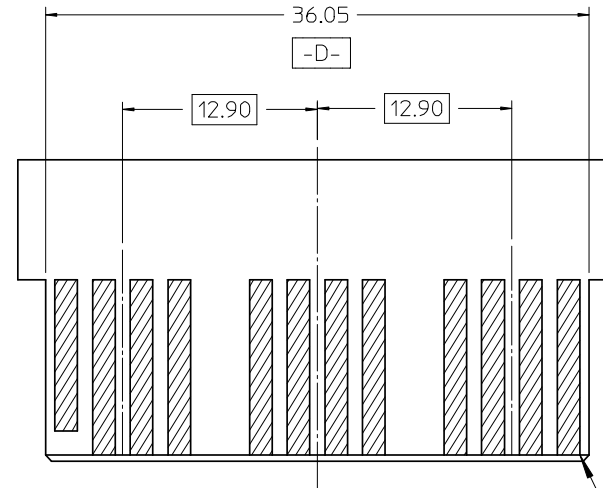
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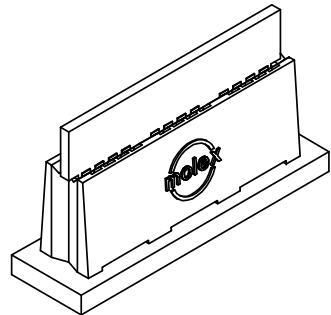
SEE SHEET ONE FOR NOTES AND DIMENSIONS NOT SHOWN

SEGMENT 1
CIRCUIT 15.40
TYP 2

PBC LAYOUT: COMPONENT SIDE

SEGMENT 1
CIRCUIT 1SEGMENT 1
CIRCUIT 1RECOMMENDED EDGE CARD LAYOUT:
TOLERANCE: ± 0.05

SEG's	MATERIAL NUMBER	DIM P	PCB THK
3	45844-0002	4.33	3.18/2.36
3	45844-0005	3.19	1.57



EC NO: UCP2008-2498 DRWN: JSCHAFFER 2008/04/16 CHK'D: 2008/04/22 APPR: APATEL 2008/04/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY MARGULIS	DATE 2004/07/29	TITLE POWER EDGE ASSEMBLY SIGNAL VERTICAL SOLDER TAIL				
		4 PLACES	± ---	± ---	CHECKED BY MARGULIS	DATE 2004/07/29					
		3 PLACES	± ---	± ---	APPROVED BY MARGULIS	DATE 2004/07/29					
		2 PLACES	± 0.25	± ---	MATERIAL NUMBER SEE CHART		MOLEX INCORPORATED				
		1 PLACE	± ---	± ---	DOCUMENT NO. SD-45844-001		SHEET NO. 2				
		ANGULAR ±1/2°			SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

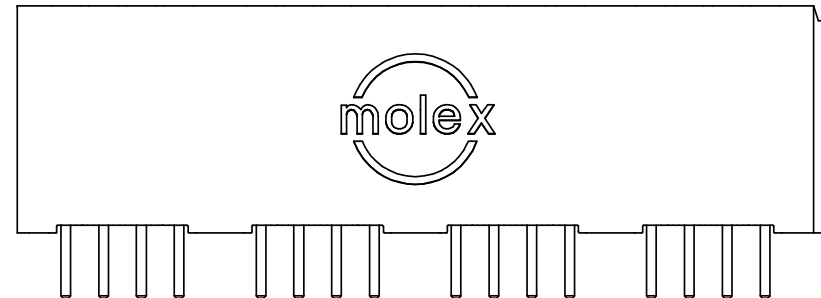
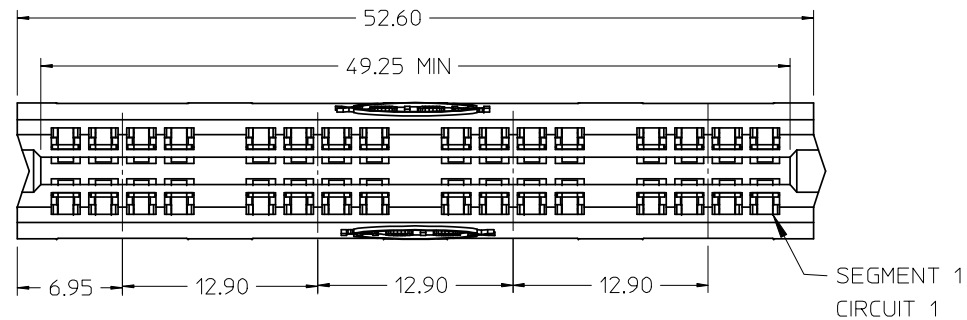
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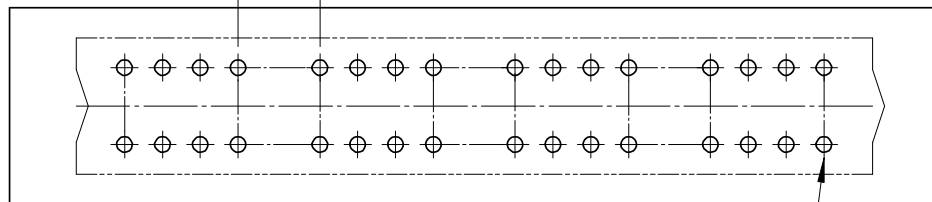
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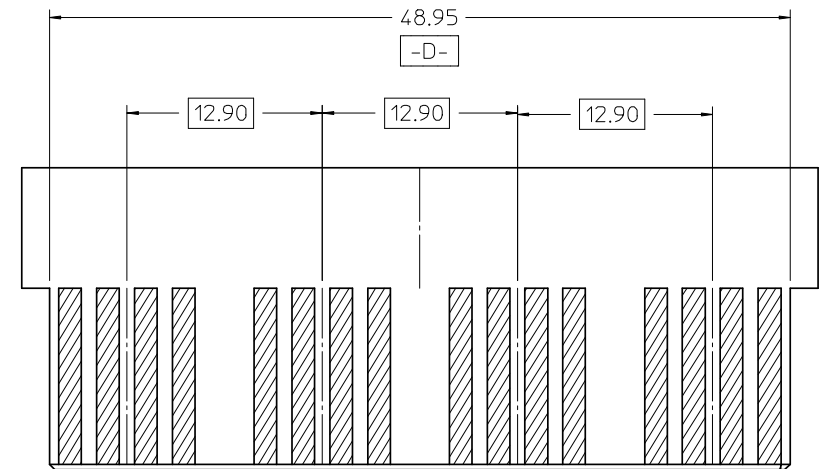
5.40
TYP 3



PCB LAYOUT: COMPONENT SIDE

SEGMENT 1
CIRCUIT 1

SEE SHEET ONE FOR NOTES AND DIMENSIONS NOT SHOWN



RECOMMENDED EDGE CARD LAYOUT
TOLERANCE:±0.05

SEG's	MATERIAL NUMBER	DIM P	PCB THK
4	45844-0003	4.33	3.18/2.36
4	45844-0006	3.19	1.57

EC NO: UCP2008-2498	DRWN:JSCHAFER	2008/04/16	DESCRIPTION
CH'KD:	APPR:APATEL	2008/04/22	REV
		2008/04/25	

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

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
MARGUL IS	2004/07/29
CHECKED BY	DATE
MARGUL IS	2004/07/29
APPROVED BY	DATE
MARGUL IS	2004/07/29
MATERIAL NUMBER	SEE CHART
SIZE	A

SCALE 2:1		DESIGN UNITS METRIC		 THIRD ANGLE PROJECTION	
TITLE POWER EDGE ASSEMBLY SIGNAL VERTICAL SOLDER TAIL					
MOLEX INCORPORATED					
DOCUMENT NO. SD-45844-001					SHEET NO. 3
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