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Part Number: [0457140003](#)
Status: **Active**
Overview: [edge_card_connectors](#)
Description: 12.90mm (.508") Pitch EXTreme PowerEdge™, Connector, 4 Segments (8 Total Contacts), Press-Fit, Mates to a 1.57mm (.062") Thick Card Edge or Bus Bar Tab

Documents:

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

Agency Certification

CSA	LR19980
TUV	R72090228

General

Product Family	Edge Card Connectors
Series	45714
Component Type	Edgecard to PCB
Overview	edge_card_connectors
Product Name	Bus Bar Socket, EXTreme PowerEdge™

Physical

Circuits (Loaded)	8
Circuits (maximum)	8
Circuits Detail	All Power
Color - Resin	Black
Durability (mating cycles max)	200
Entry Angle	Vertical (Top Entry)
Flammability	94V-0
Keying to Mating Part	N/A
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.177 In
PC Tail Length (mm)	4.50 mm
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 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 - Compliant Pin

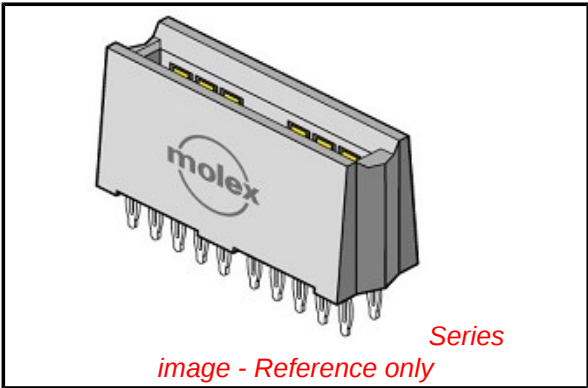
Electrical

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

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-45714-001
Product Specification	PS-45719-001



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**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](#)

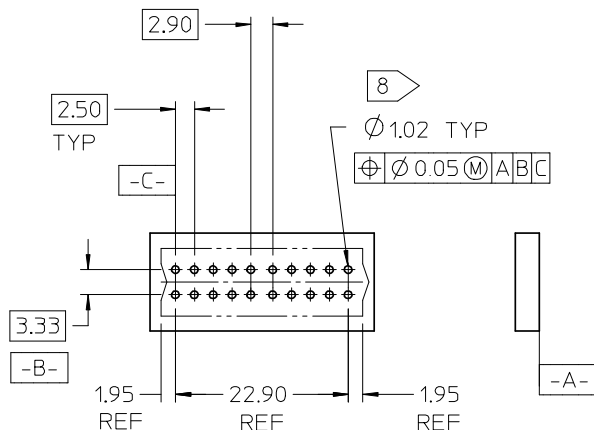
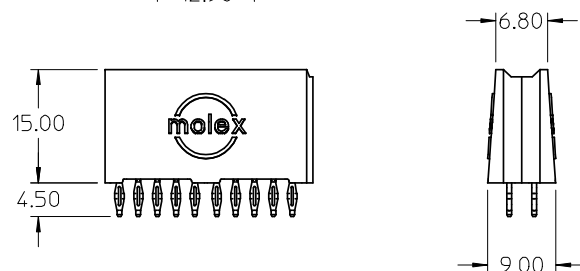
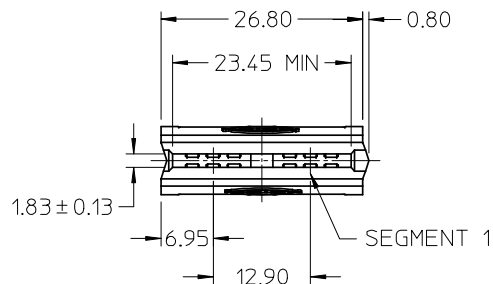
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[45714Series](#)

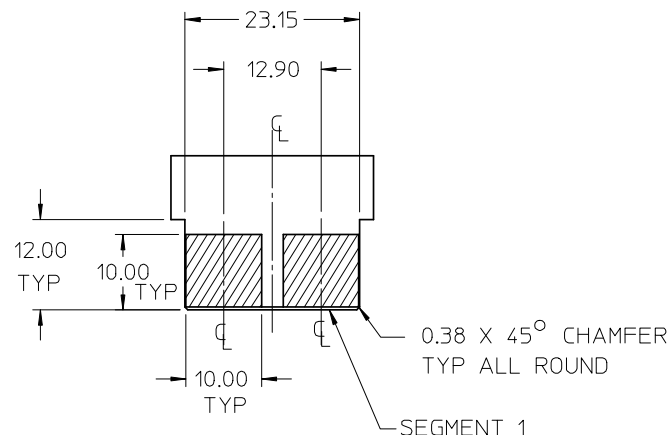
Mates With
1.58mm (.062") double sided card edge or
bus bar tab

This document was generated on 06/04/2010

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PCB LAYOUT: COMPONENT SIDE

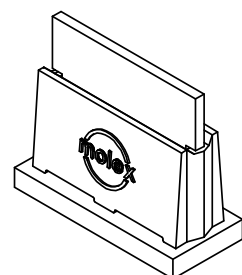


RECOMMENDED EDGE CARD LAYOUT
TOLERANCE: ± 0.05

NOTES:

- HOUSING MATL: LCP, UL94V-0, COLOR BLACK
TERMINAL MATL: COPPER ALLOY
- FINISH: SELECT GOLD: 30 M.I. MIN IN CONTACT AREA
SELECT TIN: 150 M.I. MIN IN SOLDER AREA
OVERALL NICKEL UNDERPLATE.
- PRODUCT SPECIFICATION: PS-45719-001.
- PACKAGING SPECIFICATION: PK-45714-001.
- PCB THICKNESS: 2.36 MIN
- EDGE CARD THICKNESS: 1.57 ± 0.15
- DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL
ABOUT THOSE CENTERLINES WITHIN HALF TOTAL TOLERANCE.
- PCB HOLE SPECIFICATION: SEE PS-45719-001
- VOIDED SEGMENTS DO NOT HAVE TERMINALS IN THE TOP OR BOTTOM ROW

MATERIAL NUMBER	VOIDED SEGMENT
45714-0001	NONE
45714-2001	1
45714-2002	2

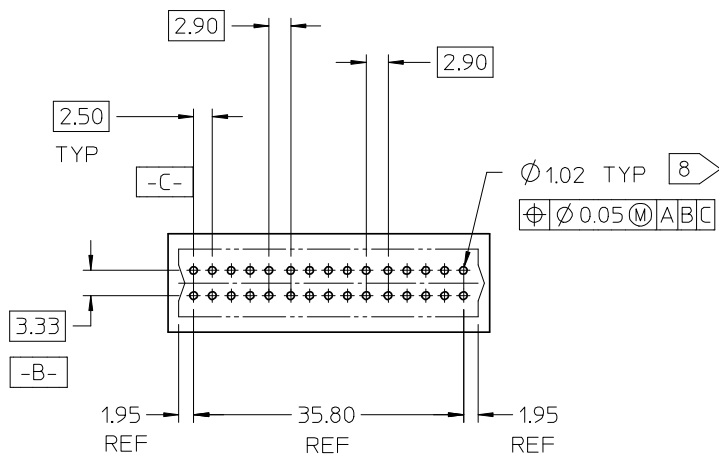
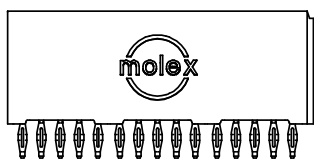
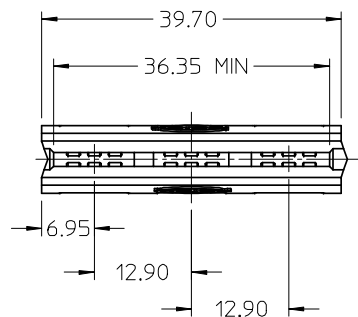


EC NO: UCP2008-2498	DRWN: JSCHAFER	2008/04/16
	CHKD: APATEL	2008/04/22
	APPR: APATEL	2008/04/25
REV	DESCRIPTION	

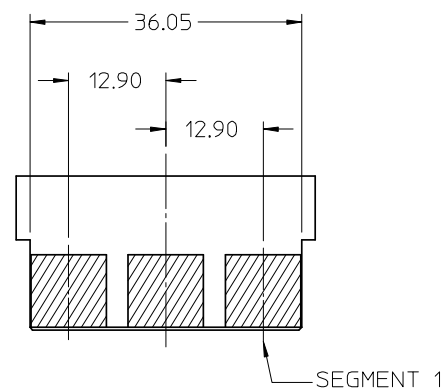
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
MARGULIS	2003/11/11
CHECKED BY	DATE
MARGULIS	2003/11/11
APPROVED BY	DATE
MARGULIS	2003/11/11

SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE POWER EDGE ASSEMBLY POWER VERTICAL CPI (2 SEGMENT PARTS)		
1  MOLEX INCORPORATED		
DOCUMENT NO. SD-45714-001		SHEET NO. 1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

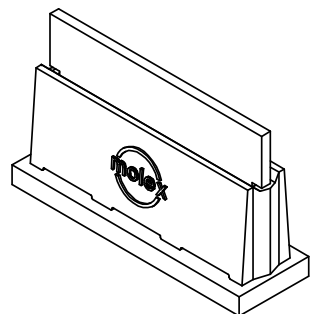


PCB LAYOUT: COMPONENT SIDE



RECOMMENDED EDGE CARD LAYOUT
EDGE CARD TOLERANCE: ± 0.05

MATERIAL NUMBER	VOIDED SEGMENT
45714-0002	NONE
45714-3001	1
45714-3002	2
45714-3003	3
45714-3004	1,2
45714-3005	1,3
45714-3006	2,3



EC NO: UCP2008-2498 DRWN: JSCHAFFER CHKD: 2008/04/22 APPR: APATEL 2008/04/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY MARGULIS	DATE 2003/11/11	TITLE POWER EDGE ASSEMBLY POWER VERTICAL CPI (3 SEGMENT PARTS)		
		4 PLACES	± ---	± ---	CHECKED BY MARGULIS	DATE 2003/11/11			
		3 PLACES	± ---	± ---	APPROVED BY MARGULIS	DATE 2003/11/11			
		2 PLACES	± 0.25	± ---	 MOLEX INCORPORATED				
		1 PLACE	± 0.25	± ---					
		ANGULAR ±1/2°							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DOCUMENT NO. SD-45714-001			SHEET NO. 2	
REV	D	SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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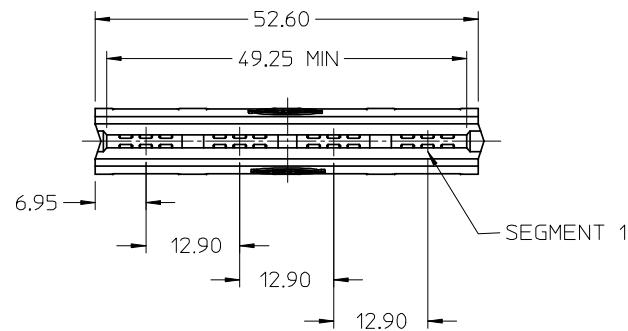
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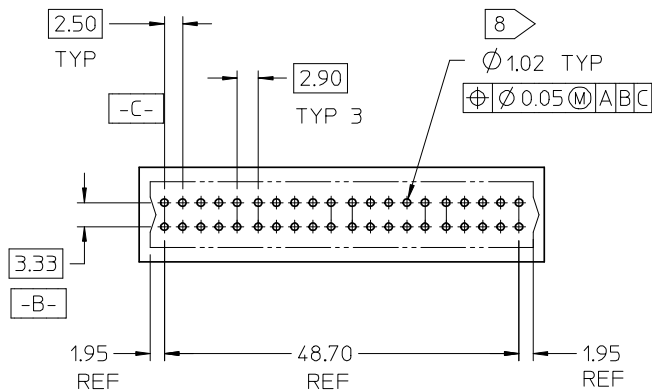
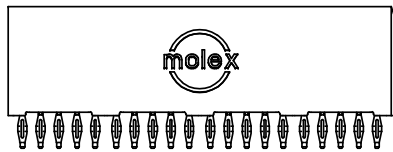
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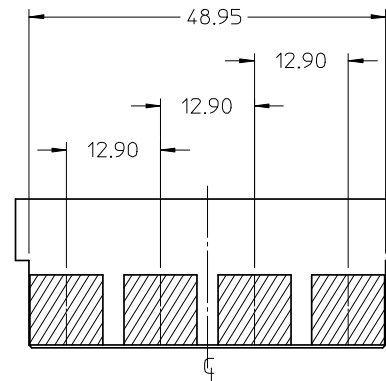


NOTES:

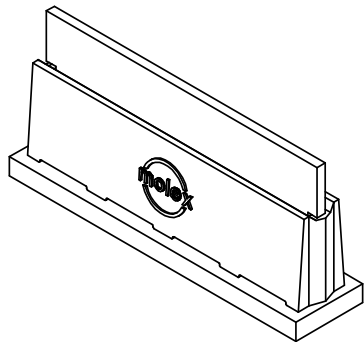
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED EDGE CARD LAYOUT
EDGE CARD TOLERANCE: ± 0.05

MATERIAL NUMBER	VOIDED SEGMENT
45714-0003	NONE
45714-4001	1
45714-4002	2
45714-4003	3
45714-4004	4
45714-4005	1,2
45714-4006	1,3
45714-4007	1,4
45714-4008	2,3
45714-4009	2,4
45714-4010	3,4



EC NO: UCP2008-2498 DRWN: JSCHAFER CHKD: 2008/04/22 APPR: APATEL 2008/04/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY MARGULIS	DATE 2003/11/11	TITLE POWER EDGE ASSEMBLY POWER VERTICAL CPI (4 SEGMENT PARTS)				
		4 PLACES	± ---	± ---	CHECKED BY	DATE					
		3 PLACES	± ---	± ---	MARGULIS	2003/11/11					
		2 PLACES	± 0.25	± ---	APPROVED BY	DATE	molex MOLEX INCORPORATED				
		1 PLACE	± 0.25	± ---	MARGULIS	2003/11/11					
		ANGULAR ±1/2°			DOCUMENT NO. SD-45714-001		SHEET NO. 3				
D	REV	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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