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Part Number: [0457140001](#)
Status: **Active**
Overview: [edge_card_connectors](#)
Description: 12.90mm (.508") Pitch EXTreme PowerEdge™, Connector, 2 Segments (4 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
MolexKits Yes
Overview [edge_card_connectors](#)
Product Name Bus Bar Socket, EXTreme PowerEdge™

Physical

Circuits (Loaded) 4
Circuits (maximum) 4
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

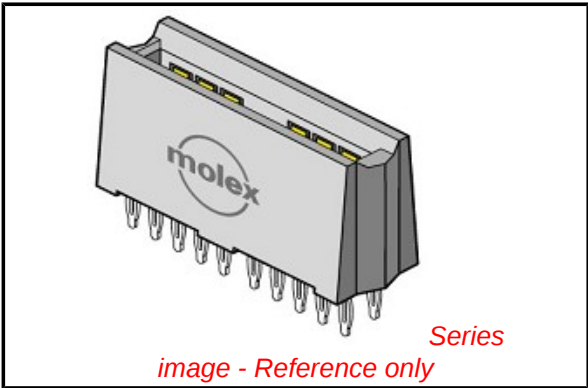
Electrical

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

Material Info

Reference - Drawing Numbers

Packaging Specification PK-45714-001



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**
Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

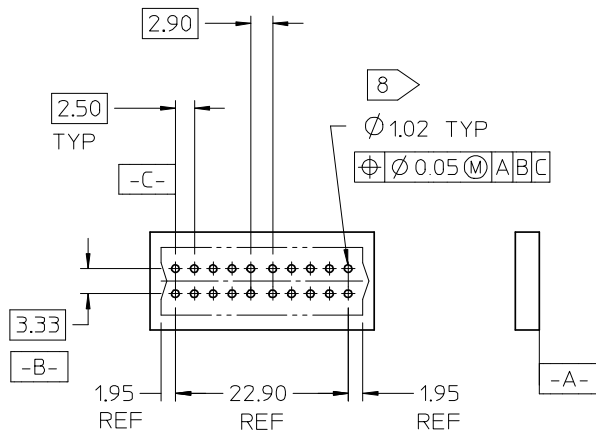
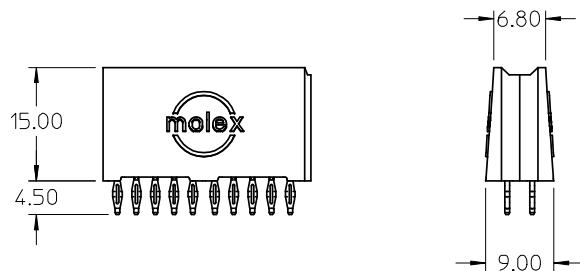
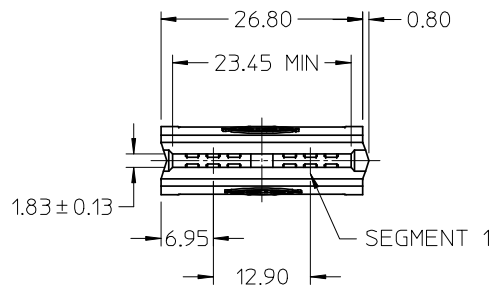
Please visit the [Contact Us](#) section for any
non-product compliance questions.

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

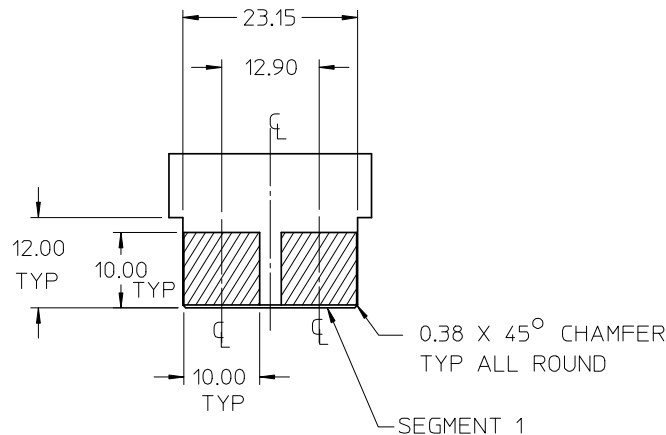
Mates With
1.58mm (.062") double sided card edge or
bus bar tab

This document was generated on 06/04/2010

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PCB LAYOUT: COMPONENT SIDE

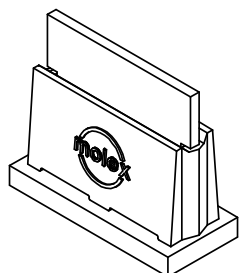


RECOMMENDED EDGE CARD LAYOUT
TOLERANCE: ± 0.05

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	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$ ---
2 PLACES	± 0.25	$\pm$ ---
1 PLACE	± 0.25	$\pm$ ---

ANGULAR $\pm 1/2^\circ$

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

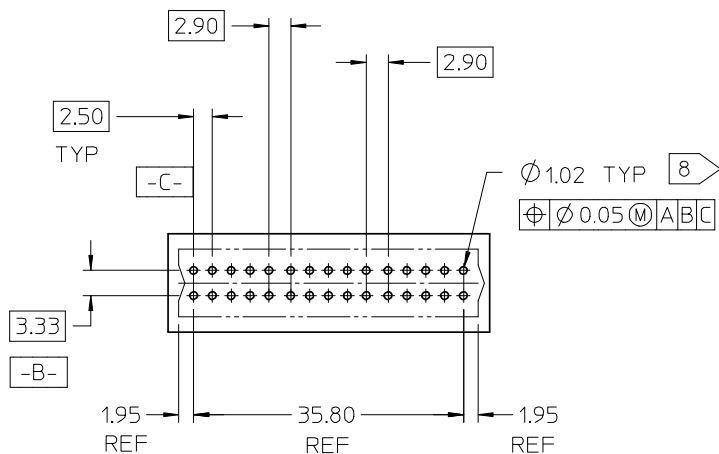
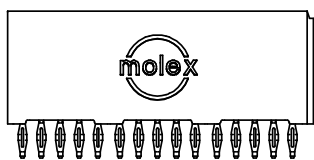
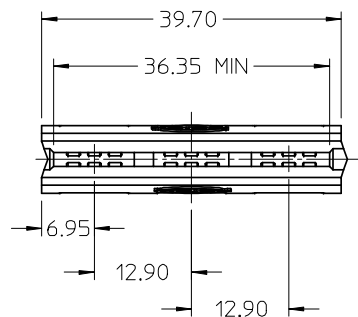
TITLE
POWER EDGE ASSEMBLY
POWER VERTICAL CPI
(2 SEGMENT PARTS)

MOLEX INCORPORATED

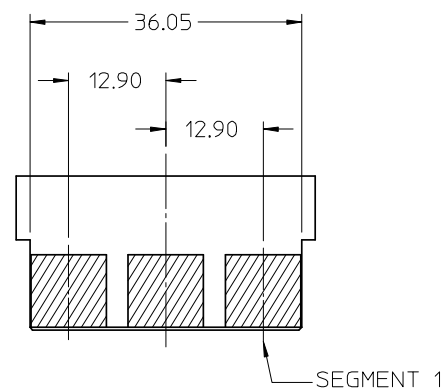
DOCUMENT NO.
SD-45714-001

SHEET NO.
1 OF 3

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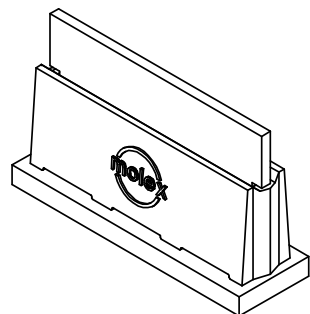


PCB LAYOUT: COMPONENT SIDE



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		DOCUMENT NO. SD-45714-001				SHEET NO. 2	
		1 PLACE	± 0.25	± ---								
		ANGULAR ±1/2°										
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
REV	D			SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

6

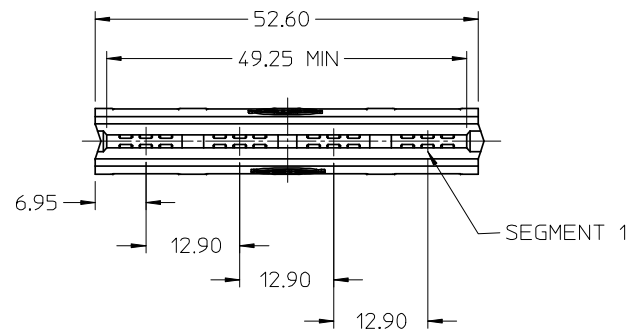
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4

3

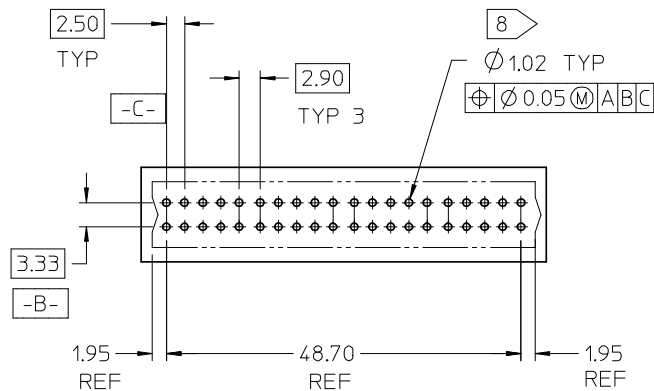
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1

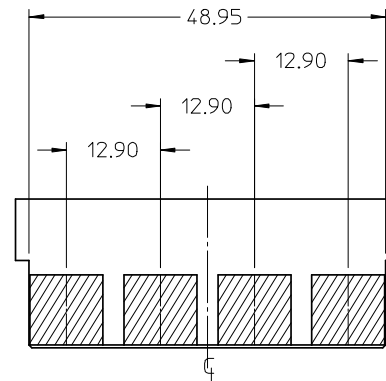


NOTES:

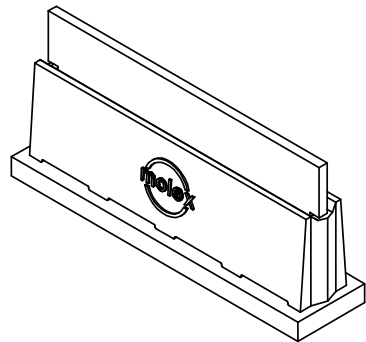
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



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: 2008/04/16 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	DATE	TITLE POWER EDGE ASSEMBLY POWER VERTICAL CPI (4 SEGMENT PARTS)				
		4 PLACES	± ---	± ---	MARGULIS	2003/11/11					
		3 PLACES	± ---	± ---	CHECKED BY	DATE					
		2 PLACES	± 0.25	± ---	MARGULIS	2003/11/11	MOLEX INCORPORATED				
		1 PLACE	± 0.25	± ---	APPROVED BY	DATE					
		ANGULAR ±1/2°			MARGULIS	2003/11/11					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					DOCUMENT NO. SD-45714-001			SHEET NO. 3	
SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										