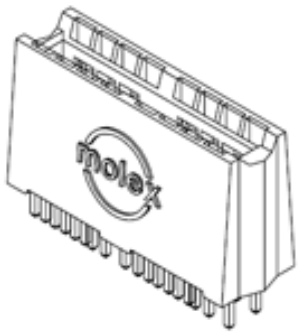
This document was generated on 06/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0457190003
Status: Active
Overview: edge_card_connectors
Description: 12.90mm (.508") Pitch EXTreme PowerEdge™, Through Hole Solder for 3.18mm (.125") Thick PC Board, Mates to a 1.57mm (.062") Thick Card Edge or Bus Bar Tab



Series image - Reference only

Documents:

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

Agency Certification

CSA	LR19980
TUV	R72090228

General

Product Family	Edge Card Connectors
Series	45719
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)	0.125 In
PCB Thickness Recommended (mm)	3.20 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	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
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
45719Series

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

Material Info

Reference - Drawing Numbers

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

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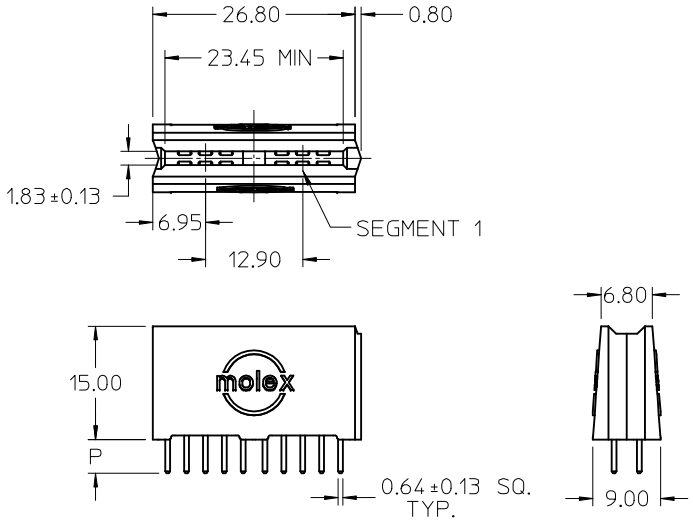
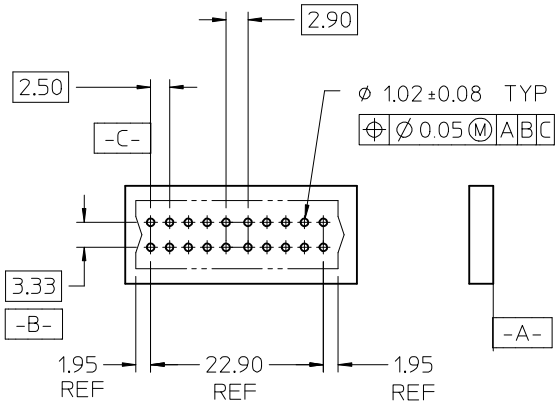
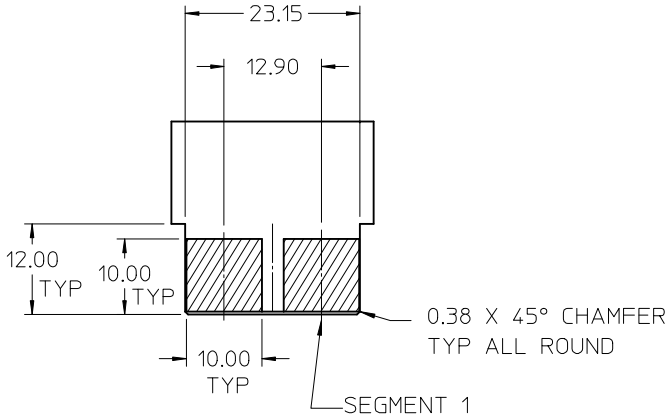


NOTES:

1. HOUSING MATL: LCP, UL94V-0, COLOR 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
   OVERALL NICKEL UNDERPLATE.
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 TOTAL TOLERANCE.
8. VOIDED SEGMENTS DO NOT HAVE TERMINALS IN THE TOP OR BOTTOME ROW

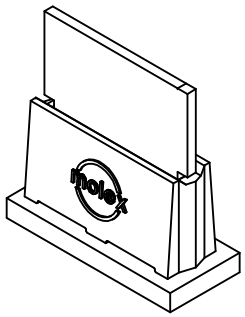


PCB LAYOUT: COMPONENT SIDE



RECOMMENDED EDGE CARD LAYOUT
TOLERANCE: ±0.05

MATERIAL NUMBER	VOIDED SEGMENT	P	PCB THK
45719-0001	NONE	4.50	3.18
45719-2001	1		
45719-2002	2		
45719-0004	NONE	3.63	2.36
45719-2003	1		
45719-2004	2		
45719-0007	NONE	2.92	1.57
45719-2005	1		
45719-2006	2		



ADD PIN DIM & TOL 2009/04/07
EC NO: UCP2009-2476 DRWN:JSCHAFER 2009/04/07
CH'KD: APPR:APATEL 2009/04/20
DESCRIPTION
E1
REV

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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

	DRAWN BY	DATE
	MARGULIS	2003/11/11
	CHECKED BY	DATE
	MARGULIS	2003/11/11
	APPROVED BY	DATE
	MARGULIS	2003/11/11

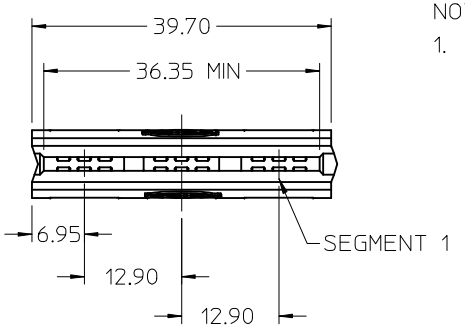
TITLE
POWER EDGE ASSEMBLY POWER VERTICAL SOLDER TAIL

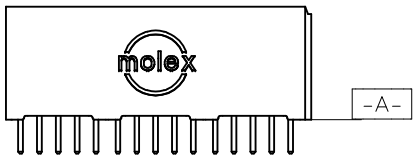
MOLEX INCORPORATED

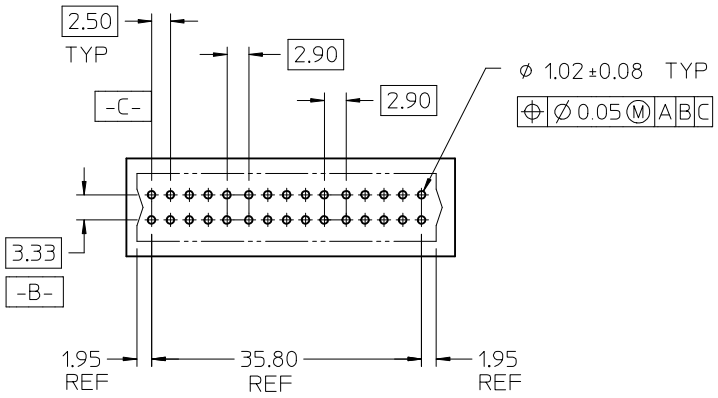
DOCUMENT NO. SD-45719-001
SHEET NO. 1 OF 3

SIZE A

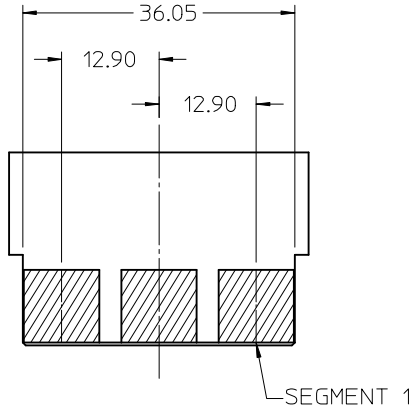
NOTES:
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.





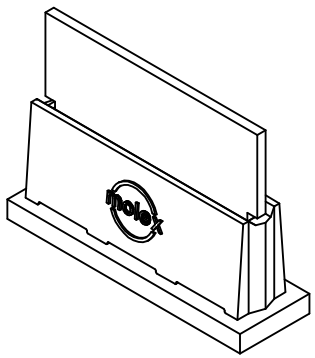


PCB LAYOUT: COMPONENT SIDE



RECOMMENDED EDGE CARD LAYOUT
EDGE CARD TOLERANCE: ±0.05

MATERIAL NUMBER	VOIDED SEGMENT	P	PCB THK
45719-0002	NONE	4.50	3.18
45719-3001	1		
45719-3002	2		
45719-3003	3		
45719-3004	1,2		
45719-3005	1,3		
45719-3006	2,3		
45719-0005	NONE	3.63	2.36
45719-3007	1		
45719-3008	2		
45719-3009	3		
45719-3010	1,2		
45719-3011	1,3		
45719-3012	2,3		
45719-0008	NONE	2.92	1.57
45719-3013	1		
45719-3014	2		
45719-3015	3		
45719-3016	1,2		
45719-3017	1,3		
45719-3018	2,3		



EC NO: UCP2009-2476 2009/04/07
DRWN:JSCHAFER 2009/04/07
CH'KD: 2009/04/20
APPR:APATEL
DESCRIPTION
E1
REV

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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

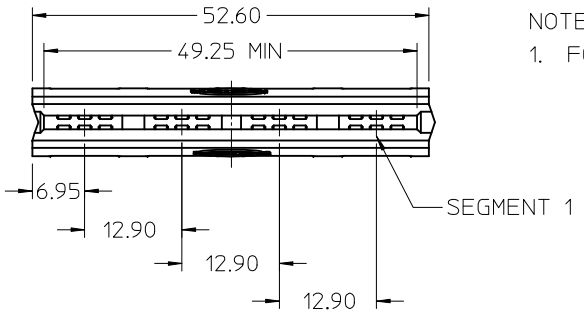
		DATE
DRAWN BY	MARGULIS	2003/11/11
CHECKED BY	MARGULIS	2003/11/11
APPROVED BY	MARGULIS	2003/11/11

TITLE
POWER EDGE ASSEMBLY
POWER VERTICAL
SOLDER TAIL

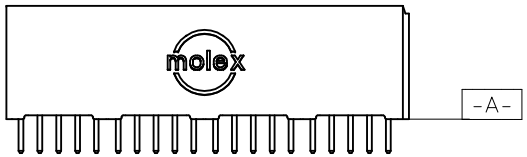
molex MOLEX INCORPORATED

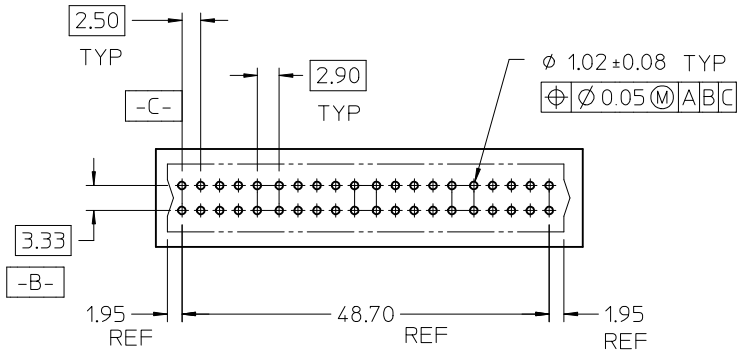
DOCUMENT NO. SD-45719-001
SHEET NO. 2

SIZE A

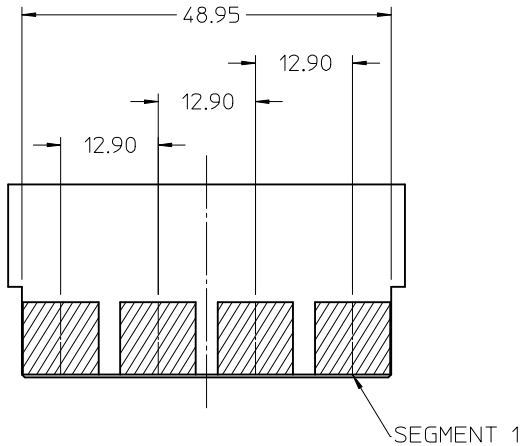


NOTES:
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



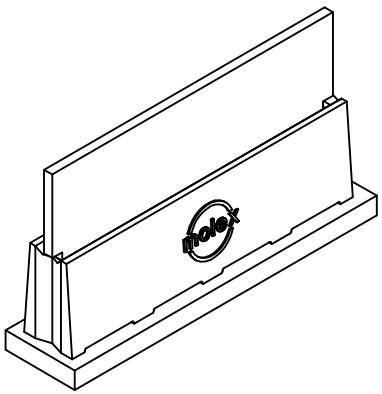


PCB LAYOUT: COMPONENT SIDE



RECOMMENDED EDGE CARD LAYOUT
EDGE CARD TOLERANCE: ±0.05

MATERIAL NUMBER	VOIDED SEGMENT	P	PCB THK
45719-0003	NONE	4.50	3.18
45719-4001	1		
45719-4002	2		
45719-4003	3		
45719-4004	4		
45719-4005	1,2		
45719-4006	1,3		
45719-4007	1,4		
45719-4008	2,3		
45719-4009	2,4		
45719-4010	3,4		
45719-0006	NONE	3.63	2.36
45719-4011	1		
45719-4012	2		
45719-4013	3		
45719-4014	4		
45719-4015	1,2		
45719-4016	1,3		
45719-4017	1,4		
45719-4018	2,3		
45719-4019	2,4		
45719-4020	3,4		
45719-0009	NONE	2.92	1.57
45719-4021	1		
45719-4022	2		
45719-4023	3		
45719-4024	4		
45719-4025	1,2		
45719-4026	1,3		
45719-4027	1,4		
45719-4028	2,3		
45719-4029	2,4		
45719-4030	3,4		



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SCALE: 1:1
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THIRD ANGLE PROJECTION

		DATE
DRAWN BY	MARGULIS	2003/11/11
CHECKED BY	MARGULIS	2003/11/11
APPROVED BY	MARGULIS	2003/11/11

TITLE
POWER EDGE ASSEMBLY
POWER VERTICAL
SOLDER TAIL

MOLEX INCORPORATED

DOCUMENT NO. SD-45719-001
SHEET NO. 3

SIZE A

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

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http://moschip.ru/get-element

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

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