

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0457190002](#)
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

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 [45719](#)
Component Type Edgecard to PCB
Overview [edge card connectors](#)
Product Name Bus Bar Socket, EXTreme PowerEdge™

Physical

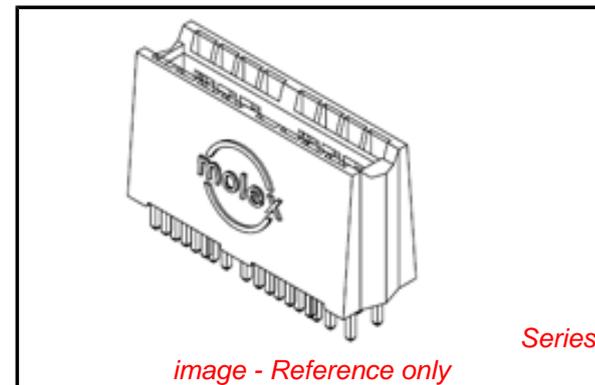
Circuits (Loaded) 6
Circuits (maximum) 6
Circuits Detail All Power
Color - Resin Black
Durability (mating cycles max) 200
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part N/A
Material - Metal High Performance Alloy (HPA)
Material - Plating Mating Gold
Material - Plating Termination 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

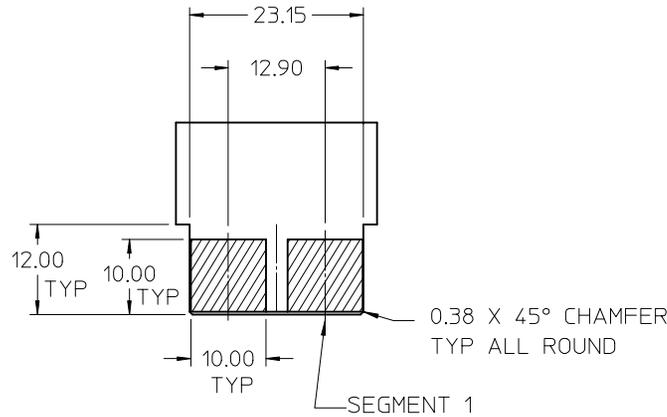
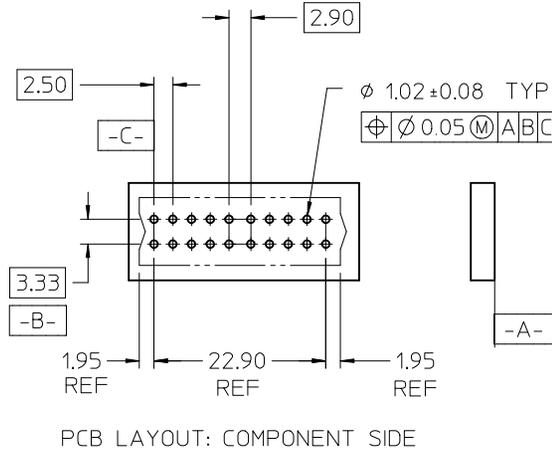
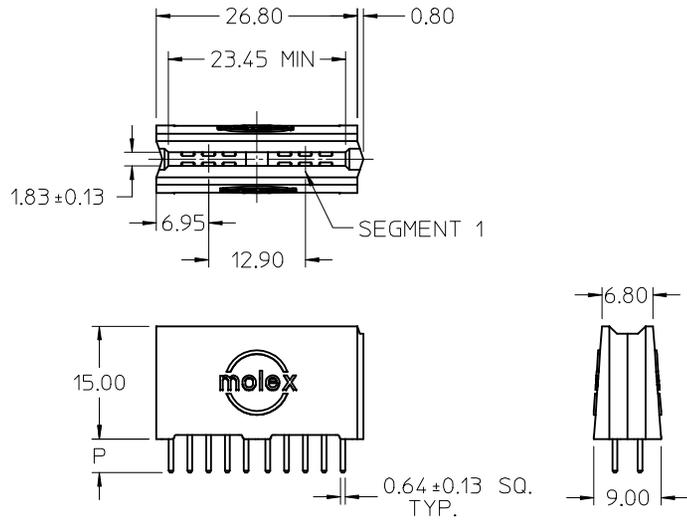
| | |
|-------------------------|--------------|
| Packaging Specification | PK-45714-001 |
| Product Specification | PS-45719-001 |
| Sales Drawing | SD-45719-001 |

This document was generated on 06/04/2010

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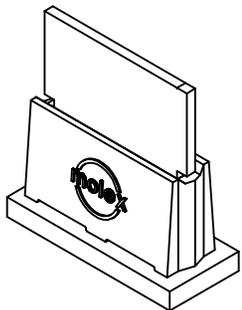
NOTES:

- 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: SEE CHART
- EDGE CARD THICKNESS: 1.57±0.15
- DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL ABOUT THOSE CENTERLINES WITHIN HALF TOTAL TOLERANCE.
- VOIDED SEGMENTS DO NOT HAVE TERMINALS IN THE TOP OR BOTTOM ROW



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 | 3.63 | 2.36 |
| 45719-0004 | NONE | | |
| 45719-2003 | 1 | 2.92 | 1.57 |
| 45719-2004 | 2 | | |
| 45719-0007 | NONE | 2.92 | 1.57 |
| 45719-2005 | 1 | | |
| 45719-2006 | 2 | | |

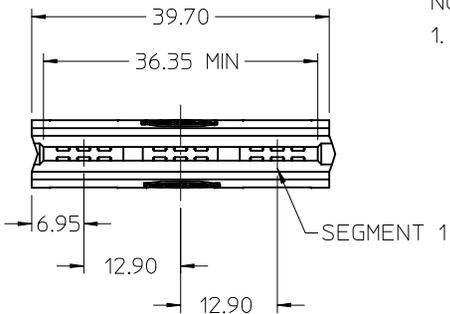


| | |
|---|-------------|
| ADD PIN DIM & TOL EC NO: UCP2009-2476 DRWN: JSCHAFFER 2009/04/07 CHKD: 2009/04/07 APPR: APATEL 2009/04/20 | DESCRIPTION |
| | REV |
| | E1 |
| | |

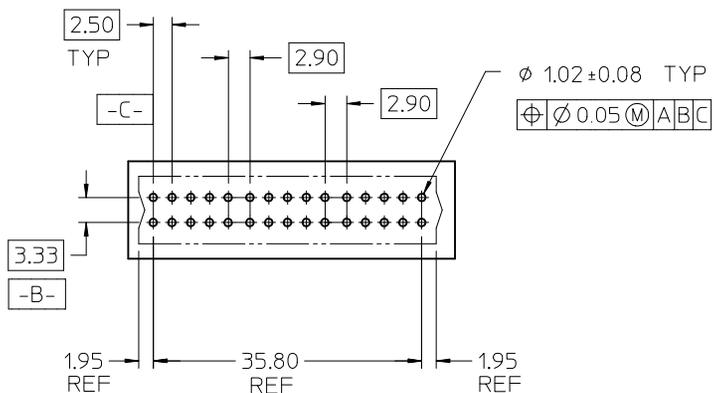
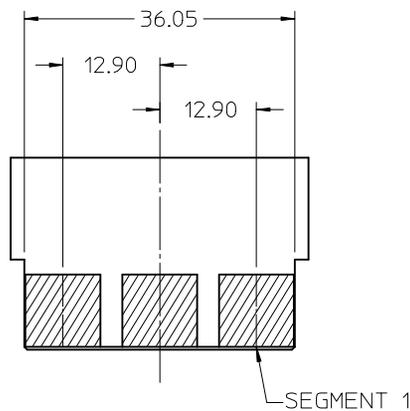
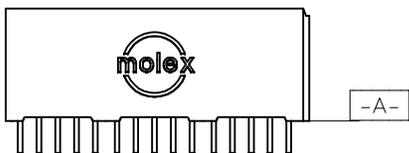
| | |
|--|--------------|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
| | mm INCH |
| 4 PLACES | ± --- ± --- |
| 3 PLACES | ± --- ± --- |
| 2 PLACES | ± 0.25 ± --- |
| 1 PLACE | ± 0.25 ± --- |
| ANGULAR ±1/2° | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | |

| | |
|----------------------------|------------|
| 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 |
| SIZE | A |

| | | |
|---|------------------------|------------------------|
| SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| TITLE POWER EDGE ASSEMBLY POWER VERTICAL SOLDER TAIL | | |
| MOLEX INCORPORATED | | |
| DOCUMENT NO. SD-45719-001 | SHEET NO. 1 OF 3 | |



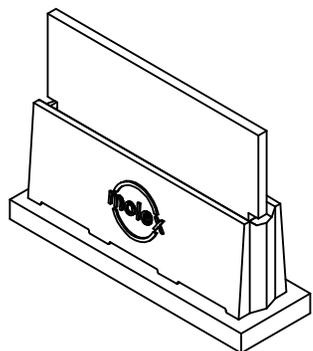
NOTES:
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



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 | 3.63 | 2.36 |
| 45719-0005 | NONE | | |
| 45719-3007 | 1 | | |
| 45719-3008 | 2 | | |
| 45719-3009 | 3 | | |
| 45719-3010 | 1,2 | | |
| 45719-3011 | 1,3 | 2.92 | 1.57 |
| 45719-3012 | 2,3 | | |
| 45719-0008 | NONE | | |
| 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 | DESCRIPTION |
| DRWN: JSCHAFFER | 2009/04/07 | |
| CHKD: | 2009/04/07 | |
| APPR: APATEL | 2009/04/20 | |
| 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 | |
| DRAWN BY | DATE |
| MARGUL IS | 2003/11/11 |
| CHECKED BY | DATE |
| MARGUL IS | 2003/11/11 |
| APPROVED BY | DATE |
| MARGUL IS | 2003/11/11 |
| SIZE | A |

| | | | | |
|---|-----|--------------|--------|------------------------|
| SCALE | 1:1 | DESIGN UNITS | METRIC | THIRD ANGLE PROJECTION |
| TITLE | | | | |
| POWER EDGE ASSEMBLY POWER VERTICAL SOLDER TAIL | | | | |
| MOLEX INCORPORATED | | | | |
| DOCUMENT NO. | | | | SHEET NO. |
| SD-45719-001 | | | | 2 |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

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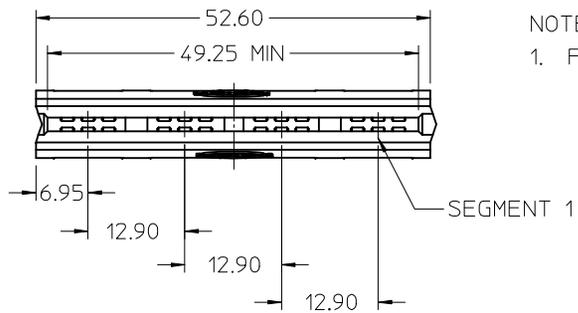
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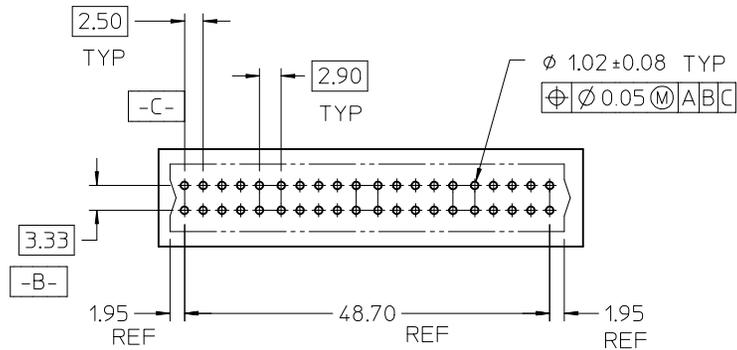
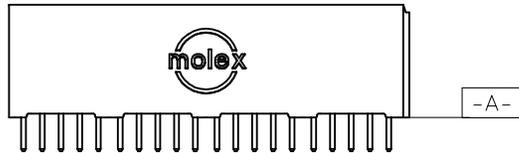
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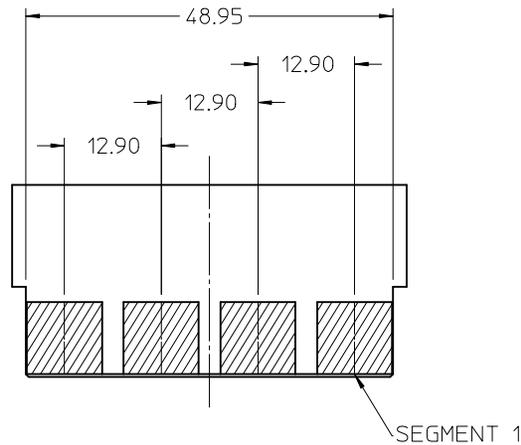


NOTES:

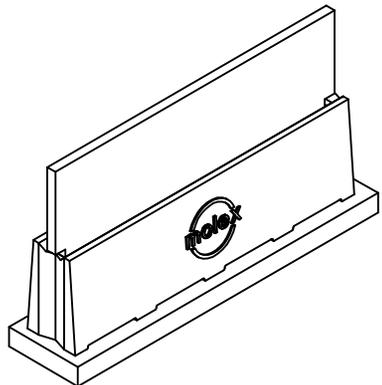
1. FOR ALL OTHER DIMENSIONS AND NOTES SEE SHEET 1.



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED EDGE CARD LAYOUT
EDGE CARD TOLERANCE: ± 0.05

| MATERIAL NUMBER | VOIDED SEGMENT | 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 | | |



| | | |
|---------------------|------------|-------------|
| EC NO: UCP2009-2476 | 2009/04/07 | DESCRIPTION |
| DRWN: JSCHAFFER | 2009/04/07 | |
| CHKD: APATEL | 2009/04/20 | |
| APPR: APATEL | 2009/04/20 | |
| E1 | REV | |

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 DIMENSIONSDIMENSION STYLE
MM ONLY

| DRAWN BY | DATE |
|-------------|------------|
| MARGUL IS | 2003/11/11 |
| CHECKED BY | DATE |
| MARGUL IS | 2003/11/11 |
| APPROVED BY | DATE |
| MARGUL IS | 2003/11/11 |

SCALE
1:1DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

TITLE
POWER EDGE ASSEMBLY
POWER VERTICAL
SOLDER TAIL
moLEX MOLEX INCORPORATED

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

5

4

3

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1

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

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