

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0459110016](#)  
**Status:** **Active**  
**Overview:** [edge\\_card\\_connectors](#)  
**Description:** 12.90mm (.508") Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 3 Segments (Signal, Power, Signal Sequence), 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     |
| TUV | 30482572.001 |
| UL  | E29179       |

**General**

|                |                                      |
|----------------|--------------------------------------|
| Product Family | Edge Card Connectors                 |
| Series         | <a href="#">45911</a>                |
| Component Type | Edgecard to PCB                      |
| Overview       | <a href="#">edge_card_connectors</a> |
| Product Name   | EXTreme PowerEdge™                   |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 18                             |
| Circuits (maximum)             | 18                             |
| Circuits Detail                | 8 Signal, 2 Power, 8 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)  | 0.508 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 | 3A, 40A |
| Voltage - Maximum             | 250V    |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**

**China RoHS**



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

Email [productcompliance@molex.com](mailto: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**  
[45911Series](#)

**Mates With**  
1.58mm (.062") double sided card edge

|                                         |     |
|-----------------------------------------|-----|
| Max. Cycles at Max. Process Temperature | 1   |
| Process Temperature max. C              | 250 |

**Material Info**

**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-45714-001 |
| Product Specification   | PS-45719-001 |
| Sales Drawing           | SD-45911-001 |

This document was generated on 06/04/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



MATERIAL NUMBER: 45911-0007 SHOWN  
SEE SHEET ONE FOR ALL OTHER NOTES AND DIMENSIONS



| MATERIAL NUMBER | SEGMENT 3 | SEGMENT 2 | SEGMENT 1 | $\frac{DIM P}{DIM T}$ | PCB THK      |
|-----------------|-----------|-----------|-----------|-----------------------|--------------|
| 45911-0007      | SIGNAL    | POWER     | POWER     | $\frac{4.50}{4.33}$   | 3.18<br>2.36 |
| 45911-0008      | POWER     | SIGNAL    | POWER     |                       |              |
| 45911-0009      | SIGNAL    | SIGNAL    | POWER     |                       |              |
| 45911-0010      | SIGNAL    | POWER     | SIGNAL    |                       |              |
| 45911-0011      | POWER     | SIGNAL    | SIGNAL    |                       |              |
| 45911-0012      | POWER     | POWER     | SIGNAL    | $\frac{3.19}{3.19}$   | 1.57         |
| 45911-0013      | SIGNAL    | POWER     | POWER     |                       |              |
| 45911-0014      | POWER     | SIGNAL    | POWER     |                       |              |
| 45911-0015      | SIGNAL    | SIGNAL    | POWER     |                       |              |
| 45911-0016      | SIGNAL    | POWER     | SIGNAL    |                       |              |
| 45911-0017      | POWER     | SIGNAL    | SIGNAL    |                       |              |
| 45911-0018      | POWER     | POWER     | SIGNAL    |                       |              |

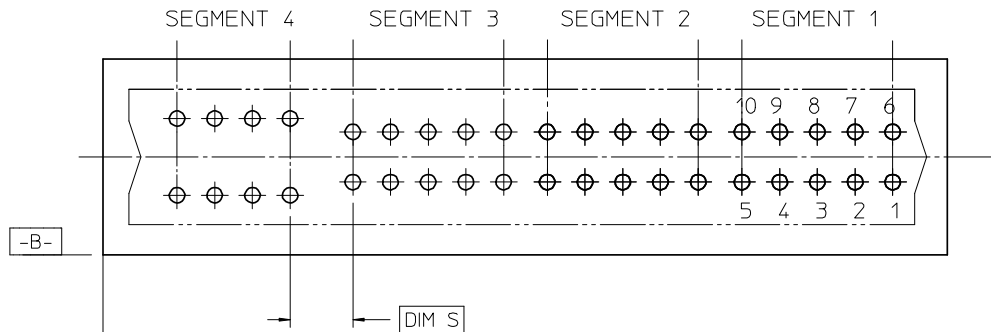


|                     |  |            |  |             |                 |                                                            |  |                 |            |                                                                                                                               |                    |                        |  |  |
|---------------------|--|------------|--|-------------|-----------------|------------------------------------------------------------|--|-----------------|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|--|--|
| EC NO: UCP2008-2498 |  | 2008/04/16 |  | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE |            | SCALE                                                                                                                         | DESIGN UNITS       | THIRD ANGLE PROJECTION |  |  |
| DRWN: JSCHAFFER     |  | 2008/04/22 |  |             |                 |                                                            |  | MM ONLY         |            | 1:1                                                                                                                           | METRIC             |                        |  |  |
| CHKD:               |  | 2008/04/25 |  |             |                 |                                                            |  |                 |            | DRAWN BY                                                                                                                      | DATE               | TITLE                  |  |  |
| APPR: APATEL        |  |            |  |             |                 |                                                            |  |                 |            | CHECKED BY                                                                                                                    | DATE               | POWER EDGE ASSEMBLY    |  |  |
|                     |  |            |  |             |                 |                                                            |  |                 |            | SAMIEC                                                                                                                        | 2005/04/14         | POWER / SIGNAL MIXED   |  |  |
|                     |  |            |  |             |                 | 2 PLACES ± 0.25 ± ---                                      |  | SAMIEC          | 2005/04/14 | VERTICAL SOLDER TAIL                                                                                                          |                    |                        |  |  |
|                     |  |            |  |             |                 | 1 PLACE ± 0.25 ± ---                                       |  | APPROVED BY     | DATE       | MOLEX                                                                                                                         | MOLEX INCORPORATED |                        |  |  |
|                     |  |            |  |             |                 | ANGULAR ±1/2°                                              |  | MARGULIS        | 2005/04/14 |                                                                                                                               |                    |                        |  |  |
|                     |  |            |  |             |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NUMBER |            | DOCUMENT NO.                                                                                                                  |                    | SHEET NO.              |  |  |
|                     |  |            |  |             |                 |                                                            |  | SEE CHART       |            | SD-45911-001                                                                                                                  |                    | 2 OF 4                 |  |  |
|                     |  |            |  |             |                 |                                                            |  | SIZE            | A          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                        |  |  |



SEGMENT 1  
CIRCUIT 1

SEE CHART ON SHEET 4  
FOR MATERIAL NUMBERS



DIM S BETWEEN SIGNAL SEG AND SIGNAL SEG: 5.40  
DIM S BETWEEN POWER SEG AND POWER SEG: 2.90  
DIM S BETWEEN SIGNAL SEG AND POWER SEG: 4.15

PCB LAYOUT: COMPONENT SIDE



|                                                                |                                        |                                                            |                                       |                      |  |                                                                                                                               |              |             |  |                          |  |
|----------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|---------------------------------------|----------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--|--------------------------|--|
| EC NO: UCP2008-2498<br>DRWN: JSCHAFER<br>CHKD:<br>APPR: APATEL | 2008/04/16<br>2008/04/22<br>2008/04/25 | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE      |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE |  |                          |  |
|                                                                |                                        |                                                            |                                       | MM ONLY              |  | 2:1                                                                                                                           | METRIC       | PROJECTION  |  |                          |  |
|                                                                |                                        |                                                            |                                       |                      |  | DRAWN BY                                                                                                                      |              | DATE        |  | TITLE                    |  |
|                                                                |                                        |                                                            |                                       |                      |  | SAMIEC                                                                                                                        |              | 2005/04/14  |  | POWER EDGE ASSEMBLY      |  |
|                                                                |                                        |                                                            |                                       |                      |  | CHECKED BY                                                                                                                    |              | DATE        |  | POWER / SIGNAL MIXED     |  |
|                                                                |                                        |                                                            |                                       |                      |  | SAMIEC                                                                                                                        |              | 2005/04/14  |  | VERTICAL SOLDER TAIL     |  |
|                                                                |                                        |                                                            |                                       |                      |  | APPROVED BY                                                                                                                   |              | DATE        |  | MOLEX MOLEX INCORPORATED |  |
|                                                                |                                        | MARGULIS                                                   |                                       | 2005/04/14           |  |                                                                                                                               |              |             |  |                          |  |
|                                                                |                                        | ANGULAR ±1/2°                                              |                                       | MATERIAL NUMBER      |  | DOCUMENT NO.                                                                                                                  |              | SHEET NO.   |  |                          |  |
|                                                                |                                        |                                                            |                                       | SEE CHART ON SHEET 4 |  | SD-45911-001                                                                                                                  |              | 3           |  |                          |  |
|                                                                |                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       | SIZE                 |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |             |  |                          |  |
|                                                                |                                        |                                                            |                                       | A                    |  |                                                                                                                               |              |             |  |                          |  |



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)