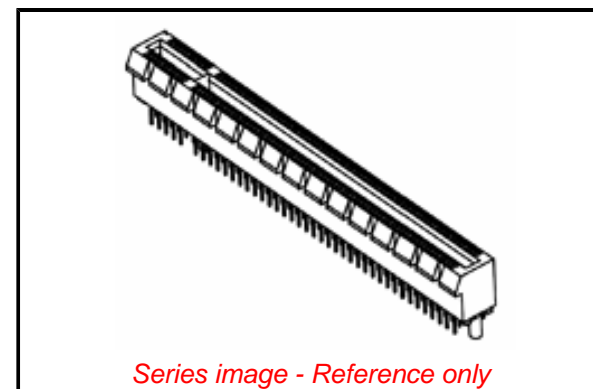


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**Part Number:** [0877159300](#)  
**Status:** **Active**  
**Overview:** PCI Express\* Card Edge Connector  
**Description:** 1.00mm Pitch, PCI Express Connector, 164 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, Gold Solder-tail, Lead-Free

**Documents:**

|  |  |
|--|--|
| <a href="#">Drawing (PDF)</a>                                | <a href="#">Product Specification TS-87715-207-001 (PDF)</a> |
| <a href="#">Product Specification PS-87715-200-001 (PDF)</a> | <a href="#">Packaging Specification PK-87715-207 (PDF)</a>   |
| <a href="#">Product Specification TS-87715-002-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>         |



**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                                |   |
|--------------------------------|---|
| Product Family                 | Edge Card Connectors                    |
| Series                         | <a href="#">87715</a>                   |
| Comments                       | PCI 16 lanes                            |
| Component Type                 | Edgecard to PCB                         |
| Data Rate                      | 8.0 Gbps                                |
| Edge Card Thickness            | 1.57mm                                  |
| Electrical Model               | Yes                                     |
| High Power Bay (30.0A or more) | No                                      |
| Orientation                    | Vertical                                |
| Overview                       | <u>PCI Express* Card Edge Connector</u> |
| Product Name                   | PCI Express                             |
| Standard Based                 | PCIe                                    |
| UPC                            | 822348683383                            |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| (p)ower-(s)ignal Configuration | 164s - 0p                      |
| Circuit Size Range             | 65-200 Circuits                |
| Circuits (Loaded)              | 164                            |
| Circuits (maximum)             | 164                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| Entry Angle                    | Vertical (Top Entry)           |
| Flammability                   | 94V-0                          |
| Keying to Mating Part          | Yes                            |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 8.691/g                        |
| PC Tail Length                 | 2.54mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 1.00mm                         |
| Pitch - Termination Interface  | 1.00mm                         |
| Plating min - Mating           | 0.051µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Temperature Range - Operating  | -55° to +85°C                  |
| Termination Interface: Style   | Through Hole                   |

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per - ED/61/2018 (27 June 2018)

**Halogen-Free**

**Status**

**Not Low-Halogen**

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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[87715 Series](#)

**Mates With**

PCI Express Card

**Electrical**

Current - Maximum per Contact 1.1A  
Voltage - Maximum 50V AC (RMS)/DC

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 010  
Lead-free Process Capability WAVE  
Max. Cycles at Max. Process Temperature 001  
Process Temperature max. C 260

**Material Info****Reference - Drawing Numbers**

Electrical Model Document EE-87715-002, EE-87715-011, EE-87715-012,  
EE-87715-013, EE-87715-014  
Packaging Specification PK-87715-207  
Product Specification PS-87715-200-001, TS-87715-002-001,  
TS-87715-207-001  
S-Parameter Model SP-87715-002, SP-87715-011, SP-87715-012,  
SP-87715-013, SP-87715-014  
Sales Drawing SD-87715-901  
Signal Integrity Report SI-87715-002

This document was generated on 08/16/2018

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[GPCP146400111HR](#) [GPCP442628110HR](#) [GPCP446200120HR](#) [GPCP245400111HR](#) [10082378-10000TLF](#) [87715-9256](#) [MDT580M03001](#)  
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