

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **0877159002**  
**Status:** **Active**  
**Overview:** PCI Express\* Card Edge Connector  
**Description:** 1.00mm Pitch, PCI Express\* Connector, 36 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.38µm Gold Solder-tail, Lead-Free

**Documents:**

[Drawing \(PDF\)](#) [Packaging Specification PK-87715-207 \(PDF\)](#)  
[Product Specification PS-87715-200-001 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification TS-87715-207-001 \(PDF\)](#)

**Agency Certification**

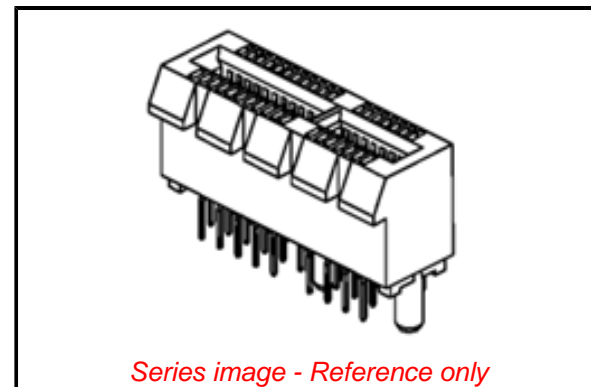
CSA LR19980  
 UL E29179

**General**

Product Family Edge Card Connectors  
 Series 87715  
 Circuit Size Range 1-64 Circuits  
 Comments PCI 1 lane  
 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 PCI Express\* Card Edge Connector  
 Product Name PCI Express\*  
 Standard Based PCIe  
 UPC 822348678976

**Physical**

(p)ower-(s)ignal Configuration 36s - 0p  
 Circuits (Loaded) 36  
 Circuits (maximum) 36  
 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 2.590/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 0.381µm  
 Plating min - Termination 2.540µm  
 Polarized to Mating Part Yes  
 Temperature Range - Operating -55°C to +85°C  
 Termination Interface: Style Through Hole



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
 -ED/01/2017 (12  
 January 2017)

**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 REFLOW  
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-87715-207-001  
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

\*PCI Express is a registered trademark of PCI-SIG®.

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