

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

**Part Number:** **0877159005**  
**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:**

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

**Agency Certification**

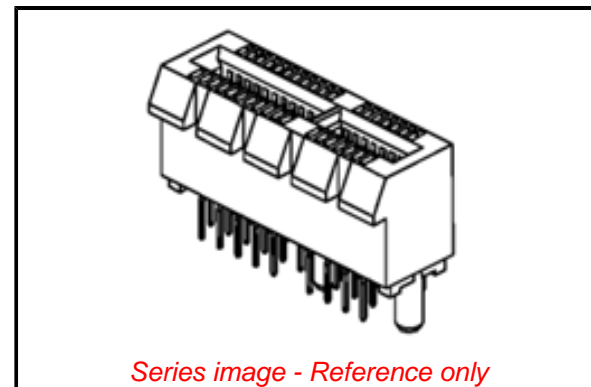
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                                |  |
|--------------------------------|--|
| Product Family                 | Edge Card Connectors                             |
| Series                         | 87715  |
| 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                       | <a href="#">PCI Express* Card Edge Connector</a> |
| Product Name                   | PCI Express                                      |
| Standard Based                 | PCIe   |
| UPC                            | 822348679829                                     |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| (p)ower-(s)ignal Configuration | 36s - 0p                       |
| Circuit Size Range             | 1-64 Circuits                  |
| 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                     | 2.867/g                        |
| PC Tail Length                 | 3.00mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 2.40mm                         |
| 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/01/2018 (15  
January 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

ELV

RoHS Phthalates

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

87715 Series

**Mates With**

PCI Express Card

**Electrical**

Current - Maximum per Contact  
Voltage - Maximum

1.1A  
50V AC (RMS)/DC

**Solder Process Data**

Lead-free Process Capability  
Process Temperature max. C

WAVE  
245

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

Electrical Model Document

EE-87715-004, EE-87715-011, EE-87715-012,  
EE-87715-013, EE-87715-014

Packaging Specification

PK-87715-001, PK-87715-207

Product Specification

PS-87715-200-001, TS-87715-207-001

S-Parameter Model

SP-87715-004, SP-87715-011, SP-87715-012,  
SP-87715-013, SP-87715-014

Sales Drawing

SD-87715-901

This document was generated on 07/16/2018

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