



Part Number : 877159002

Series Number : 87715

Product Category : Card Edge Connectors

Product 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

Status : Active

Documents & Resources

Drawings

Drawing 877159002\_sd.pdf

Packaging Design Drawing PK-87715-207-001.pdf

3D Models and Design Files

3D Model 877159002\_stp.zip

Electrical Model Document EE-87715-002-001.pdf

Electrical Model Document EE-87715-011-001.pdf

Electrical Model Document EE-87715-012-001.pdf

Electrical Model Document EE-87715-013-001.pdf

Electrical Model Document EE-87715-014-001.pdf

Signal Integrity Report SI-87715-002-001.pdf

S-Parameter Model SP-87715-014-001.zip

S-Parameter Model SP-87715-013-001.zip

S-Parameter Model SP-87715-002-001.zip

S-Parameter Model SP-87715-012-001.zip

S-Parameter Model SP-87715-011-001.zip

Specifications

Product Specification PS-87715-200-001.pdf

Test Summary TS-87715-207-001.pdf

Product Environment Compliance

Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                          |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21                                                    |
| REACH SVHC         | Not Contained per D(2024)4144-DC (27 June 2024)                                       |

|         |                           |
|---------|---------------------------|
| EU RoHS | Compliant per EU 2015/863 |
|---------|---------------------------|

#### Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

#### Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### EU RoHS Certificate of Compliance

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### Part Details

#### General

|                |                                                                                                                                              |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                                       |
| Category       | Card Edge Connectors                                                                                                                         |
| Series         | 87715                                                                                                                                        |
| 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 |
| Comments       | PCI 1 lane                                                                                                                                   |
| Component Type | Edgecard to PCB                                                                                                                              |
| Product Family | PCIe PCI-X Connectors                                                                                                                        |
| Product Name   | PCI Express                                                                                                                                  |
| Standard Based | PCIe                                                                                                                                         |
| UPC            | 822348678976                                                                                                                                 |

#### Agency

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

#### Electrical

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 1.1A     |
| Data Rate                     | 8.0 Gbps |

|                                |                 |
|--------------------------------|-----------------|
| High Power Bay (30.0A or more) | No              |
| Voltage - Maximum              | 50V AC (RMS)/DC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuit Size Range             | 1-64 Circuits                  |
| Circuits (Loaded)              | 36                             |
| Circuits (maximum)             | 36                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| Edge Card Thickness            | 1.57mm                         |
| 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                        |
| Orientation                    | Vertical                       |
| Packaging Type                 | Tray                           |
| PC Tail Length                 | 2.54mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| 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                            |
| (p)ower-(s)ignal Configuration | 36s - 0p                       |
| Temperature Range - Operating  | -55° to +85°C                  |
| Termination Interface Style    | Through Hole                   |

## Solder Process Data

|              |    |
|--------------|----|
| Max-Duration | 10 |
|--------------|----|

|                              |        |
|------------------------------|--------|
| Lead-Free Process Capability | REFLOW |
| Max-Cycle                    | 1      |
| Max-Temp                     | 260    |

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**Mates With / Use With**

**Mates with Part(s)**

|             |                  |
|-------------|------------------|
| Description | Part Number      |
| Mates With  | PCI Express Card |