



Part Number : 877159306

Series Number : 87715

Product Category : Card Edge Connectors

Product Description : 1.00mm Pitch, PCI Express Connector, 164 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.76µm Gold Solder-tail, Lead-Free

Status : Active

Documents & Resources

Drawings

Drawing 877159306_sd.pdf

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

3D Models and Design Files

3D Model 877159306_stp.zip

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

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

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

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

Electrical Model Document EE-87715-002-001.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(2023)8585-DC (23 Jan 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

Part Details

General

| | |
|----------------|---|
| Status | Active |
| Category | Card Edge Connectors |
| Series | 87715 |
| Description | 1.00mm Pitch, PCI Express Connector, 164 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.76µm Gold Solder-tail, Lead-Free |
| Comments | PCI 16 lanes |
| Component Type | Edgecard to PCB |
| Product Family | PCIe PCI-X Connectors |
| Product Name | PCI Express |
| Standard Based | PCIe |
| UPC | 822348683444 |

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 | 65-200 Circuits |
| Circuits (Loaded) | 164 |
| Circuits (maximum) | 164 |
| 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 | 8.500/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 | 0.762μm |
| Plating min - Termination | 2.540μm |
| Polarized to Mating Part | Yes |
| (p)ower-(s)ignal Configuration | 164s - 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 |

Mates With / Use With

Mates with Part(s)

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