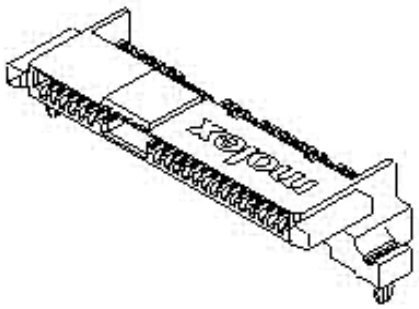
molex



**Part Number :** 879451001
**Product Description :** 1.27mm Signal Pitch, 0.80mm SCSI Pitch, 1.27mm Power Pitch SAS-2 Receptacle, Right-Angle, Surface Mount, "Z" Height of 7.07mm, with Beveled Metal Pins, PCB Thickness 1.83mm-2.20mm, 29 Circuits, Lead-Free
**Series Number :** 87945
**Status :** Obsolete
**Product Category :** I/O Connectors

Obsolete

## Documents & Resources

### Drawings

879451001_sd.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

EE-87945-001-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33 |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21 |
| REACH SVHC | Not Contained per D(2025)4165-DC (25 June 2025) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements

- EU RoHS

- REACH SVHC
- Low-Halogen

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

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Obsolete |
| Category | I/O Connectors |
| Series | 87945 |
| Description | 1.27mm Signal Pitch, 0.80mm SCSI Pitch, 1.27mm Power Pitch SAS-2 Receptacle, Right-Angle, Surface Mount, "Z" Height of 7.07mm, with Beveled Metal Pins, PCB Thickness 1.83mm-2.20mm, 29 Circuits, Lead-Free |
| Application | Board-to-Board |
| Comments | PCB Forklock Must be Plated Through Hole regardless whether Forklock is soldered or not |
| Component Type | Receptacle |
| Product Name | SAS 6G,SAS-2 |
| Type | N/A |
| UPC | 822350734936 |

### Agency

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

Obsolete

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1.5A |
| Shielded | No |
| Voltage - Maximum | 30V |

## Physical

| | |
|---|---|
| Boot Color | N/A |
| Circuits Detail | Signal 14, Power 15 |
| Circuits (Loaded) | 29 |
| Circuits (maximum) | 29 |
| Color - Resin | Black |
| Durability (mating cycles max) | 500 |
| Flammability | 94V-0 |
| Gender | Female |
| Keying to Mating Part | Yes |
| Lock to Mating Part | None |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 2.643/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| Packaging Type | Tray |
| Panel Mount | Yes |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 2.10mm |
| Pitch - Mating Interface | 0.80mm, 1.27mm |
| Pitch - Termination Interface | 0.80mm, 1.27mm |
| Plating min - Mating | 0.762µm |
| Plating min - Termination | 2.540µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Temperature Range - Operating | 0° to +55°C |

Obsolete

| | |
|---|---|
| Termination Interface Style | Surface Mount |
| Waterproof / Dustproof | No |
| Wire Size (AWG) | N/A |

### 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 | SFF 8482 Hard Disk Drive and Backplane Plug |

Obsolete