



Part Number : 459850473

Series Number : 45985

Product Category : Board-to-Board
Connectors

Product Description : EXTreme LPHPower
Plug, Right-Angle, 36 Signal Contacts, Select
Gold (Au) Plating, for 1.57mm Thick PC Board,
with Guide Pockes and Press-fit Plastic Pegs

Status : Active

Documents & Resources

Drawings

Drawing 459850473_sd.pdf

Packaging Design Drawing PK-45984-001-001.pdf

3D Models and Design Files

3D Model 459850473_stp.zip


Symbol Footprint Data SYM-45985-0471-001.zip

Specifications

Product Specification PS-45984-001-001.pdf

Product Environment Compliance

Compliance

| | |
|--------------------|---|
| GADSL/IMDS | Not Relevant |
| China RoHS |  |
| EU ELV | Not Relevant |
| Low-Halogen Status | 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

Part Details

General

| | |
|----------------|--|
| Status | Active |
| Category | Board-to-Board Connectors |
| Series | 45985 |
| Description | EXTreme LPHPower Plug, Right-Angle, 36 Signal Contacts, Select Gold (Au) Plating, for 1.57mm Thick PC Board, with Guide Pockets and Press-fit Plastic Pegs |
| Application | Board-to-Board, Signal |
| Component Type | PCB Header |
| Product Family | EXTreme LPHPower Connectors |
| Product Name | EXTreme LPHPower |
| UPC | 884982073470 |

Agency

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

Electrical

| | |
|-------------------------------|-----------------|
| Current - Maximum per Contact | 1.0A |
| Voltage - Maximum | 30V DC (Signal) |

Physical

| | |
|--------------------------------|-------|
| Breakaway | No |
| Circuits (Loaded) | 36 |
| Circuits (maximum) | 36 |
| Color - Resin | Black |
| Durability (mating cycles max) | 250 |
| First Mate / Last Break | No |

| | |
|--------------------------------|--------------------------------|
| Flammability | 94V-0 |
| Glow-Wire Capable | No |
| Guide to Mating Part | Yes |
| Keying to Mating Part | None |
| Lock to Mating Part | No |
| Material - Metal | High Performance Alloy (HPA) |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 3.191/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| Packaging Type | Tray |
| PC Tail Length | 2.90mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 1.57mm |
| Pitch - Mating Interface | 1.27mm |
| Pitch - Termination Interface | 1.27mm |
| Plating min - Mating | 0.762µm |
| Plating min - Termination | 3.810µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| (p)ower-(s)ignal Configuration | 36s - 0p |
| Shrouded | Fully |
| Stackable | No |
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface Style | Through Hole |

Solder Process Data

| | |
|------------------------------|------|
| Max-Duration | 20 |
| Lead-Free Process Capability | WAVE |
| Max-Cycle | 3 |
| Max-Temp | 260 |

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|--|--------------|
| EXTreme LPHPower Right-Angle PCB Receptacles | <u>45984</u> |
| 1.27mm Pitch EXTreme LPHPower Vertical PCB Receptacles | <u>46113</u> |