



**Part Number :** 459858483

**Product Description :** EXTreme LPHPower Plug, Right-Angle, 8 Power Contacts, 40 Signal Contacts, Select Gold (Au) Plating, for 1.57mm Thick PC Board, with Guide Pockets and Press-fit Plastic Pegs



**Series Number :** 45985

**Status :** Active

**Product Category :** Board-to-Board Connectors

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## Documents & Resources

### Drawings

[459858483\\_sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[SYM-45985-8481-001.zip](#)

### Specifications

[PS-45984-001-001.pdf](#)

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## Product Environment Compliance

### Compliance

|                    |  |
|--------------------|--|
| GADSL/IMDS         | Not Relevant                                       |
| China RoHS         | per SJ/T 11365-2006                                |
| EU ELV             | Not Relevant                                       |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                     |
| REACH SVHC         | Not Contained per D(2025)4165-DC<br>(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         | Active   |
| Category       | Board-to-Board Connectors  |
| Series         | 45985  |
| Description    | EXTreme LPHPower Plug, Right-Angle, 8 Power Contacts, 40 Signal Contacts, Select Gold (Au) Plating, for 1.57mm Thick PC Board, with Guide Pockets and Press-fit Plastic Pegs |
| Application    | Board-to-Board, Power, Signal  |
| Component Type | PCB Header   |
| Product Name   | EXTreme LPHPower   |
| UPC            | 822350779784   |

### Agency

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

### Electrical

|                               |   |
|-------------------------------|---|
| Current - Maximum per Contact | 23.0A                                     |
| Voltage - Maximum             | 250V AC (RMS)/DC (Power), 30V DC (Signal) |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 48                             |
| Circuits (maximum)             | 48                             |
| 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            | None                           |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 12.051/g                       |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| Packaging Type                 | Tray                           |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.57mm                         |
| PC Tail Length                 | 2.90mm                         |
| Pitch - Mating Interface       | 1.27mm, 12.00mm                |
| Pitch - Termination Interface  | 1.27mm, 2.00mm, 2.50mm         |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 3.810µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| (p)ower-(s)ignal Configuration | 8p - 40s                       |
| 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  |

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## Mates With / Use With

### Mates with Part(s)

| Description                                     | Part Number  |
|---|--------------|
| EXTreme LPHPower Right-Angle<br>PCB Receptacles | <u>45984</u> |

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