



**Part Number :** [459841172](#)  
**Product Description :** 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Right-Angle, 10 Power Contacts, 36 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board  
**Series Number :** 45984  
**Status :** Active  
**Product Category :** Board-to-Board Connectors



## Documents & Resources


**Drawings**  
[Drawing 459841172\\_sd.pdf](#)  
[Packaging Design Drawing PK-45984-001-001.pdf](#)

**3D Models and Design Files**  
[3D Model 459841172\\_stp.zip](#)  
[Symbol Footprint Data SYM-45984-1171-001.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(2023)3788-DC (14 Jun 2023)  |
| 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       | Board-to-Board Connectors  |
| Series         | 45984  |
| Description    | 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Right-Angle, 10 Power Contacts, 36 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board |
| Application    | Board-to-Board, Power  |
| Component Type | PCB Receptacle   |
| Product Family | EXTreme LPHPower Connectors  |
| Product Name   | EXTreme LPHPower   |
| UPC            | 822350772518   |

#### Agency

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

#### Electrical

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 20.0A   |
| Grounding to PCB              | No      |
| Voltage - Maximum             | 250V AC |

#### Physical

|                    |       |
|--------------------|-------|
| Circuits (Loaded)  | 46    |
| Circuits (maximum) | 46    |
| Color - Resin      | Black |

|                                |                                |
|--------------------------------|--------------------------------|
| Durability (mating cycles max) | 250                            |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | Yes                            |
| 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                     | 15.263/g                       |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| Packaging Type                 | Tray                           |
| PC Tail Length                 | 3.60mm                         |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 2.36mm                         |
| Pitch - Mating Interface       | 1.27mm, 12.00mm                |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 3.810µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| (p)ower-(s)ignal Configuration | 10p - 36s                      |
| 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 Plugs | <u>45985</u>     |
| Mates With                         | 1.57mm Card Edge |

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