

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0459846152](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower Connectors  
**Description:** 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Right-Angle, 6 Power Contacts, 28 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                     | <a href="#">Packaging Specification PK-45984-001-001 (PDF)</a> |
| <a href="#">3D Model (PDF)</a>                               | <a href="#">Symbol Footprint Data SYM-45984-6151-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |
| <a href="#">Product Specification PS-45984-001-001 (PDF)</a> |  |

**Agency Certification**

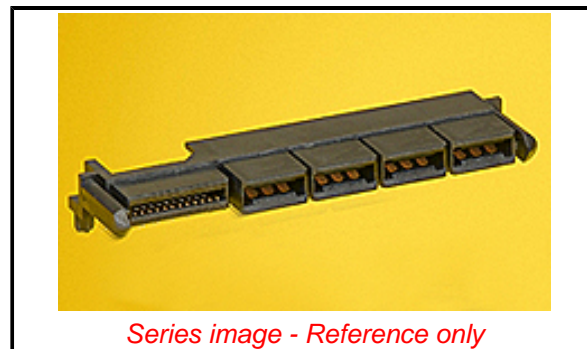
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |   |
|----------------|---|
| Product Family | PCB Receptacles                             |
| Series         | 45984                                       |
| Application    | Board-to-Board, Power                       |
| Overview       | <a href="#">EXTreme LPHPower Connectors</a> |
| Product Name   | EXTreme LPHPower                            |
| UPC            | 822350774284                                |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| (p)ower-(s)ignal Configuration | 6p - 28s                       |
| Circuits (Loaded)              | 34                             |
| Circuits (maximum)             | 34                             |
| 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                     | 9.727/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 3.60mm                         |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 2.36mm                         |
| Packaging Type                 | Tray                           |
| 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                            |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40° to +105°C                 |
| Termination Interface: Style   | Through Hole                   |



**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[45984](#) Series

**Mates With**

[45985](#) EXTreme LPHPower Headers,  
1.57mm Card Edge

**Electrical**

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 27.0A   |
| Grounding to PCB              | No      |
| Voltage - Maximum             | 250V AC |

**Solder Process Data**

|  |      |
|--|------|
| Duration at Max. Process Temperature (seconds) | 020  |
| Lead-free Process Capability                   | WAVE |
| Max. Cycles at Max. Process Temperature        | 003  |
| Process Temperature max. C                     | 260  |

**Material Info****Reference - Drawing Numbers**

|                         |                    |
|-------------------------|--------------------|
| Packaging Specification | PK-45984-001-001   |
| Product Specification   | PS-45984-001-001   |
| Sales Drawing           | SD-45984-600-001   |
| Symbol/Footprint Data   | SYM-45984-6151-001 |

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