

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

**Part Number:** [0459844341](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower Connectors  
**Description:** 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Right-Angle, 4 Power Contacts, 24 Signal Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board, with Press-fit Plastic Pegs

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                     | <a href="#">Packaging Specification PK-45984-001-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                | <a href="#">Symbol Footprint Data SYM-45984-4341-001 (PDF)</a> |
| <a href="#">3D Model (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                       |
| Component Type | PCB Receptacle                              |
| Overview       | <a href="#">EXTreme LPHPower Connectors</a> |
| Product Name   | EXTreme LPHPower                            |
| Taxonomy       | Board-to-Board Connectors                   |
| UPC            | 822350773782                                |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| (p)ower-(s)ignal Configuration | 4p - 24s                       |
| Circuits (Loaded)              | 28                             |
| Circuits (maximum)             | 28                             |
| 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                     | 7.178/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 4.50mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 3.18mm                         |
| 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                            |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained per -  
D(2022)9120-DC (17  
Jan 2023)

**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

|                               |                |
|-------------------------------|----------------|
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface: Style  | Through Hole   |

**Electrical**

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 30.0A   |
| 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-45984-400-001   |
| Symbol/Footprint Data   | SYM-45984-4341-001 |

This document was generated on 04/18/2023

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**