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**Part Number:** [0459841232](#)  
**Status:** **Active**  
**Overview:** [EXTreme LPHPower Connectors](#)  
**Description:** 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Right-Angle, 10 Power Contacts, 20 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board, with Guide Posts

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-45984-001-001 \(PDF\)](#)  
[Packaging Specification PK-45984-001-001 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

|                                |                                             |
|--------------------------------|---------------------------------------------|
| <b>Agency Certification</b>    |                                             |
| CSA                            | LR19980                                     |
| UL                             | E29179                                      |
| <b>General</b>                 |                                             |
| Product Family                 | PCB Receptacles                             |
| Series                         | <a href="#">45984</a>                       |
| Application                    | Board-to-Board, Power                       |
| Overview                       | <a href="#">EXTreme LPHPower Connectors</a> |
| Product Name                   | EXTreme LPHPower                            |
| UPC                            | 822350772617                                |
| <b>Physical</b>                |                                             |
| (p)ower-(s)ignal Configuration | 10p - 20s                                   |
| Circuits (Loaded)              | 30                                          |
| Circuits (maximum)             | 30                                          |
| Color - Resin                  | Black                                       |
| Durability (mating cycles max) | 250                                         |
| Flammability                   | 94V-0                                       |
| Glow-Wire Capable              | No                                          |
| Guide to Mating Part           | Yes                                         |
| 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                     | 14.871/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                                |



Series image - Reference only

|                                                                                                                                                                                                                                               |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>EU ELV</b><br><b>Not Relevant</b>                                                                                                                                                                                                          |                                              |
| <b>EU RoHS</b><br><b>Compliant</b><br><b>REACH SVHC</b><br>Not Contained Per -<br>ED/61/2018 (27 June<br>2018)<br><b>Halogen-Free</b><br><b>Status</b><br><b>Low-Halogen</b><br>For more information, please visit <a href="#">Contact US</a> | <b>China RoHS</b>                            |
| China ROHS<br>ELV<br>RoHS Phthalates                                                                                                                                                                                                          | Green Image<br>Not Relevant<br>Not Contained |

**Search Parts in this Series**  
[45984](#) Series

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

**Electrical**

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

**Solder Process Data**

|                                                |      |
|------------------------------------------------|------|
| Duration at Max. Process Temperature (seconds) | 020  |
| Lead-freeProcess 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-45984-100     |

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