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**Part Number:** [0459856431](#)  
**Status:** **Active**  
**Overview:** [EXTreme LPHPower Connectors](#)  
**Description:** EXTreme LPHPower Header, Right-Angle, 6 Power Contacts, 20 Signal Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board, with Guide Pockets, with Press-fit Plastic Pegs

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

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Agency Certification</b> |                                             |
| CSA                         | LR19980                                     |
| UL                          | E29179                                      |
| <b>General</b>              |                                             |
| Product Family              | PCB Headers                                 |
| Series                      | <a href="#">45985</a>                       |
| 3D Viewer                   | Yes                                         |
| Application                 | Board-to-Board, Power                       |
| CURRENT-MAX-NUMERIC         | 27.0                                        |
| Overview                    | <a href="#">EXTreme LPHPower Connectors</a> |
| PITCH-MATING-NUMERIC        | 1.27, 12.00                                 |
| Product Name                | EXTreme LPHPower                            |
| UPC                         | 822350778671                                |

|                                |                                |
|--------------------------------|--------------------------------|
| <b>Physical</b>                |                                |
| (p)ower-(s)ignal Configuration | 6p - 20s                       |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 26                             |
| Circuits (maximum)             | 26                             |
| 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            | No                             |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 8.643/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                            |
| Shrouded                       | Fully                          |



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/71/2019 (16 July<br>2019)<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                                                                                                                                                                                                                                    | Green Image       |
| ELV                                                                                                                                                                                                                                           | Not Relevant      |
| RoHS Phthalates                                                                                                                                                                                                                               | Not Contained     |

**Search Parts in this Series**  
[45985](#) Series

**Mates With**  
[45984](#) EXTreme LPHPower PCB  
Receptacles

|                                                |                  |
|------------------------------------------------|------------------|
| Stackable                                      | No               |
| Surface Mount Compatible (SMC)                 | Yes              |
| Temperature Range - Operating                  | -40° to +105°C   |
| Termination Interface: Style                   | Through Hole     |
| <b>Electrical</b>                              |                  |
| Current - Maximum per Contact                  | 27.0A            |
| Voltage - Maximum                              | 250V AC (RMS)/DC |
| <b>Solder Process Data</b>                     |                  |
| Duration at Max. Process Temperature (seconds) | 020              |
| Lead-freeProcess Capability                    | WAVE             |
| Max. Cycles at Max. Process Temperature        | 003              |
| Process Temperature max. C                     | 260              |
| <b>Material Info</b>                           |                  |
| <b>Reference - Drawing Numbers</b>             |                  |
| Product Specification                          | PS-45984-001-001 |
| Sales Drawing                                  | SD-45985-600     |
| Symbol/Footprint Data                          | SYM-45985-6431   |

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