

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

**Part Number:** [0459851421](#)  
**Status:** **Active**  
**Overview:** [EXTreme LPHPower Connectors](#)  
**Description:** EXTreme LPHPower Header, Right-Angle, 10 Power Contacts, 16 Signal Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board, with Guide Pockets, with Press-fit Plastic Pegs

**Documents:**  
[3D Model](#) [Packaging Specification PK-45984-001-001 \(PDF\)](#)  
[3D Model \(PDF\)](#) [Symbol Footprint Data SYM-45985-1421-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-45984-001-001 \(PDF\)](#)

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Agency Certification</b> |                                             |
| CSA                         | LR19980                                     |
| UL                          | E29179                                      |
| <b>General</b>              |                                             |
| Product Family              | PCB Headers                                 |
| Series                      | <a href="#">45985</a>                       |
| Application                 | Board-to-Board, Power                       |
| Overview                    | <a href="#">EXTreme LPHPower Connectors</a> |
| Product Name                | EXTreme LPHPower                            |
| UPC                         | 822350776769                                |

|                                |                                |
|--------------------------------|--------------------------------|
| <b>Physical</b>                |                                |
| (p)ower-(s)ignal Configuration | 10p - 16s                      |
| 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                     | 12.732/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                          |
| Stackable                      | No                             |



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>D(2021)4569-DC (8<br>July 2021)<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><br><br><br><br><br><br><br><br><br><br>China ROHS<br>ELV<br>RoHS Phthalates |
|                                                                                                                                                                                                                                                  | Green Image<br>Not Relevant<br>Not Contained                                                  |

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

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

|                                                |                    |
|------------------------------------------------|--------------------|
| Surface Mount Compatible (SMC)                 | Yes                |
| Temperature Range - Operating                  | -40° to +105°C     |
| Termination Interface: Style                   | Through Hole       |
| <b>Electrical</b>                              |                    |
| Current - Maximum per Contact                  | 20.0A              |
| 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>             |                    |
| Packaging Specification                        | PK-45984-001-001   |
| Product Specification                          | PS-45984-001-001   |
| Sales Drawing                                  | SD-45985-100-001   |
| Symbol/Footprint Data                          | SYM-45985-1421-001 |

This document was generated on 01/10/2022

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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Molex:](#)

[45985-1421](#)