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**Part Number:** [0459851432](#)  
**Status:** **Active**  
**Overview:** [EXTreme LPHPower™ Connectors](#)  
**Description:** EXTreme LPH Power™ Header, Right Angle, 10 Power Contacts, 20 Signal Contacts, Select Gold (Au) Plating, for 2.36mm 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>                        |
| Application                 | Board-to-Board, Power                        |
| Overview                    | <a href="#">EXTreme LPHPower™ Connectors</a> |
| Product Name                | EXTreme LPHPower™                            |
| UPC                         | 822350776806                                 |

|                                |                                |
|--------------------------------|--------------------------------|
| <b>Physical</b>                |                                |
| (p)ower-(s)ignal Configuration | 10p - 20s                      |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 30                             |
| Circuits (maximum)             | 30                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 250                            |
| First Mate / Last Break        | Yes                            |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | 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                     | 12.980/g                       |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 3.60mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| 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                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +105°C                |



Series image - Reference only

**EU ELV**  
**Not Relevant**

**EU RoHS** **China RoHS**  
**Compliant**  
**REACH SVHC**  
Not Contained Per -  
ED/30/2017 (7 July  
2017)  
**Halogen-Free**  
**Status**  
**Low-Halogen**  
**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

|                 |               |
|-----------------|---------------|
| 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

|                                                |                  |
|------------------------------------------------|------------------|
| 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>             |                  |
| Product Specification                          | PS-45984-001-001 |
| Sales Drawing                                  | SD-45985-100     |

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