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**Part Number:** [0459854482](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower™ Connectors  
**Description:** EXTreme LPH Power™ Header, Right Angle, 4 Power Contacts, 40 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 \(PDF\)](#)

**Agency Certification**

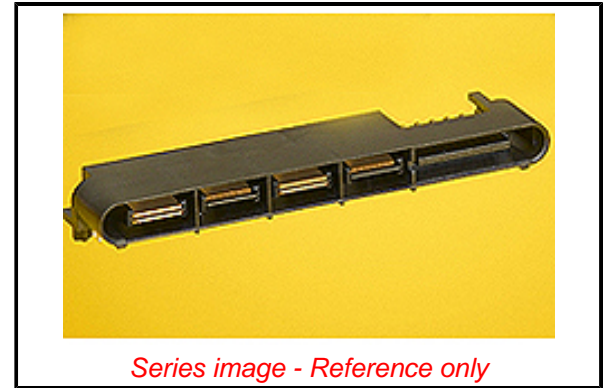
CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [45985](#)  
 Application Board-to-Board, Power  
 Overview [EXTreme LPHPower™ Connectors](#)  
 Product Name EXTreme LPHPower™  
 UPC 822350777889

**Physical**

(p)ower-(s)ignal Configuration 4p - 40s  
 Breakaway No  
 Circuits (Loaded) 44  
 Circuits (maximum) 44  
 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 7.715/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**

**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                  | 30.0A            |
| Voltage - Maximum                              | 250V AC (RMS)/DC |
| <b>Solder Process Data</b>                     |                  |
| Duration at Max. Process Temperature (seconds) | 020              |
| Lead-free Process 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-45985-400     |

This document was generated on 08/29/2017

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