

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0459856481](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower Connectors  
**Description:** EXTreme LPHPower Header, Right-Angle, 6 Power Contacts, 40 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 \(PDF\)](#)

**Agency Certification**

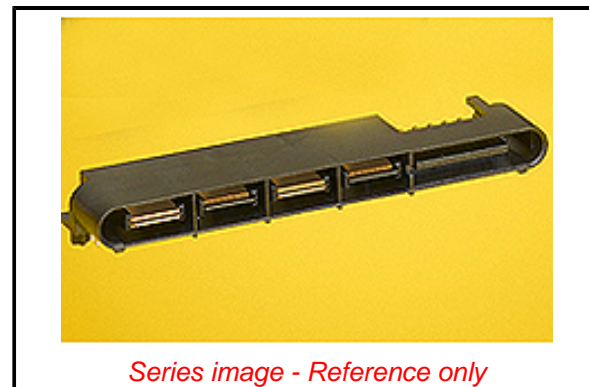
CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [45985](#)  
 Application Board-to-Board, Power  
 Overview [EXTreme LPHPower Connectors](#)  
 Product Name EXTreme LPHPower  
 UPC 822350778824

**Physical**

(p)ower-(s)ignal Configuration 6p - 40s  
 Breakaway No  
 Circuits (Loaded) 46  
 Circuits (maximum) 46  
 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 9.883/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  
 Surface Mount Compatible (SMC) Yes  
 Temperature Range - Operating -40° to +105°C



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
 ED/61/2018 (27 June  
 2018)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

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	27.0A
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-45985-600

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