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**Part Number:** [45985-8171](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower™  
**Description:** EXTreme LPH Power™ Header, Right Angle, 8 Power Contacts, 36 Signal Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board

**Documents:**

[3D Model](#) [Product Specification PS-45984-001 \(PDF\)](#)  
[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™](#)  
 Product Name EXTreme LPHPower™  
 UPC 822350779029

**Physical**

(p)ower-(s)ignal Configuration 8p - 36s  
 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 No  
 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 11.407/g  
 Number of Rows 2  
 Orientation Right Angle  
 PC Tail Length 4.50mm  
 PCB Locator No  
 PCB Retention None  
 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°C to +105°C



Series

image - Reference only

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Low-Halogen Status Low-Halogen**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[45985Series](#)

**Mates With**

[45984 EXTreme LPHPower™ PCB Receptacles](#)

Termination Interface: Style

Through Hole

**Electrical**

Current - Maximum per Contact

23A

Voltage - Maximum

250V AC (RMS)/DC

**Solder Process Data**

Duration at Max. Process Temperature (seconds)

20

Lead-free Process Capability

Wave Capable (TH only)

Max. Cycles at Max. Process Temperature

3

Process Temperature max. C

260

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-45984-001

Sales Drawing

SD-45985-800

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