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**Part Number:** [45984-8312](#)  
**Status:** **Active**  
**Overview:** [EXTreme LPHPower™](#)  
**Description:** 1.27mm, 12.00mm Pitch, EXTreme LPHPower™ Receptacle Header, Right Angle, 8 Power Contacts, 12 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board, with Press-fit Plastic Pegs

**Documents:**

[3D Model](#) [Product Specification PS-45984-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

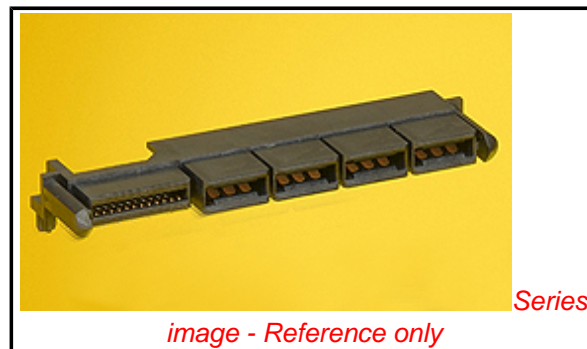
Product Family PCB Receptacles  
 Series [45984](#)  
 Application Board-to-Board, Power  
 Overview [EXTreme LPHPower™](#)  
 Product Name EXTreme LPHPower™

**Physical**

(p)ower-(s)ignal Configuration 8p - 12s  
 Circuits (Loaded) 20  
 Circuits (maximum) 20  
 Color - Resin Black  
 Durability (mating cycles max) 250  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part Yes  
 Lock to Mating Part No  
 Material - Metal High Performance Alloy (HPA)  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 2  
 Orientation Right Angle  
 PC Tail Length 3.60mm  
 PCB Locator Yes  
 PCB Retention Yes  
 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  
 Stackable No  
 Surface Mount Compatible (SMC) Yes  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 23A  
 Grounding to PCB No



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
**Contains SVHC: Yes**

**China RoHS**



4,4'-Diaminodiphenylmethane  
 2-Pyrrolidinone, 1-methyl

**Low-Halogen Status**

**Low-Halogen**

**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**

[45984Series](#)

**Mates With**

[45985](#) EXTreme LPHPower™ Headers, 1.57mm Card Edge

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-45984-800

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