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**Part Number:** [0459844143](#)  
**Status:** **Active**  
**Overview:** EXTreme LPHPower™ Connectors  
**Description:** 1.27mm, 12.00mm Pitch, EXTreme LPHPower™ Receptacle Header, Right Angle, 4 Power Contacts, 24 Signal Contacts, Select Gold (Au) Plating, for 1.57mm Thick PC Board

**Documents:**

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

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Receptacles  
 Series 45984  
 Application Board-to-Board, Power  
 Overview EXTreme LPHPower™ Connectors  
 Product Name EXTreme LPHPower™  
 UPC 822350773331

**Physical**

(p)ower-(s)ignal Configuration 4p - 24s  
 Circuits (Loaded) 28  
 Circuits (maximum) 28  
 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  
 Net Weight 6.960/g  
 Number of Rows 2  
 Orientation Right Angle  
 PC Tail Length 2.90mm  
 PCB Locator No  
 PCB Retention None  
 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**



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**

45984 Series

**Mates With**

45985 EXTreme LPHPower™ Headers,  
 1.57mm Card Edge

Current - Maximum per Contact	30.0A
Grounding to PCB	No
Voltage - Maximum	250V AC

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	020
Lead-free Process Capability	WAVE
Max. Cycles at Max. Process Temperature	003
Process Temperature max. C	260

**Material Info****Reference - Drawing Numbers**

Packaging Specification	PK-45984-001
Product Specification	PS-45984-001-001
Sales Drawing	SD-45984-400

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