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**Part Number:** [0459844112](#)

**Status:** **Active**

**Overview:**

**Description:** 1.27mm (.050"), 12.00mm (.472") Pitch, EXTreme LPHPower™ Receptacle Header, Right Angle, 4 Power Contacts, 12 Signal Contacts, Select Gold (Au) Plating, for 2.36mm (.093") Thick PC Board

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-45984-001 \(PDF\)](#)

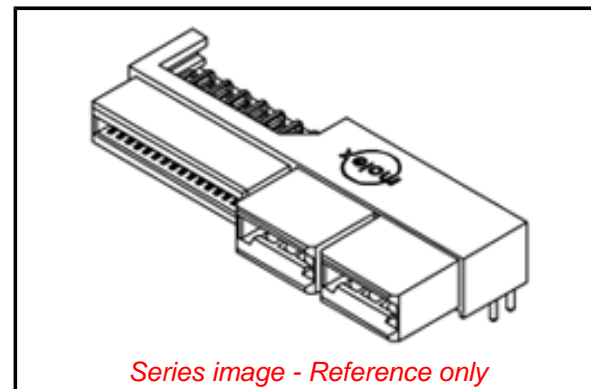
[RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Receptacles
Series	<a href="#">45984</a>
Application	Board-to-Board
Overview	EXTreme LPHPower™#153;
Product Name	EXTreme LPHPower™

**Physical**

Circuits (Loaded)	16
Circuits (maximum)	16
Circuits Detail	4 Power, 12 Signal
Color - Resin	Black
Durability (mating cycles max)	250
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 - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.142 In
PC Tail Length (mm)	3.60 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.36 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (in)	0.472 In
Pitch - Mating Interface (mm)	1.27 mm
Pitch - Mating Interface (mm)	12.00 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	150
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.875
Plating min: Termination (µm)	3.75
Polarized to Mating Part	Yes
Polarized to PCB	Yes
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**

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



**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.

Duration at Max.	20
Process Temperature (seconds)	
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max.	3
Process Temperature	
Process Temperature max. C	260

**Search Parts in this Series**

[45984 Series](#)

**Mates With**

[45985](#) EXTreme LPHPower™ Headers, 1.57mm (.062") Card Edge

Termination Interface: Style

Through Hole

**Electrical**

Current - Maximum

30A

Grounding to PCB

No

Voltage - Maximum

250V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-45984-001

Sales Drawing

SD-45984-400

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