



Part Number : [459850312](#)

**Product Description :** EXTreme LPHPower Plug, Right-Angle, 12 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board, with Press-fit Plastic Pegs

Series Number : 45985

Status : Active

Product Category : Board-to-Board Connectors

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## Documents & Resources

### Drawings

[Drawing 459850312\\_sd.pdf](#)

[Packaging Design Drawing PK-45984-001-001.pdf](#)

### 3D Models and Design Files

[3D Model 459850312\\_stp.zip](#)

[Symbol Footprint Data SYM-45985-0311-001.zip](#)


### Specifications

[Product Specification PS-45984-001-001.pdf](#)

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## Product Environment Compliance

### Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

### [Multiple Part Product Compliance Statements](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

### [Multiple Part Industry Compliance Documents](#)

- IPC 1752A Class C
- IPC 1752A Class D

- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

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## Part Details

### General

Status	Active
Category	Board-to-Board Connectors
Series	45985
Description	EXTreme LPHPower Plug, Right-Angle, 12 Signal Contacts, Select Gold (Au) Plating, for 2.36mm Thick PC Board, with Press-fit Plastic Pegs
Application	Board-to-Board, Signal
Component Type	PCB Header
Product Family	EXTreme LPHPower Connectors
Product Name	EXTreme LPHPower
UPC	884982073180

### Agency

CSA	LR19980
UL	E29179

### Electrical

Current - Maximum per Contact	1.0A
Voltage - Maximum	30V DC (Signal)

### Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black
Durability (mating cycles max)	250
First Mate / Last Break	No
Flammability	94V-0

Glow-Wire Capable	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	1.723/g
Number of Rows	2
Orientation	Right Angle
Packaging Type	Tray
PC Tail Length	2.90mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	2.36mm
Pitch - Mating Interface	1.27mm
Pitch - Termination Interface	1.27mm
Plating min - Mating	0.762µm
Plating min - Termination	3.810µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
(p)ower-(s)ignal Configuration	12s - 0p
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole

### Solder Process Data

Max-Duration	20
Lead-Free Process Capability	WAVE
Max-Cycle	3
Max-Temp	260

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## Mates With / Use With

### Mates with Part(s)

Description	Part Number
EXTreme LPHPower Right-Angle PCB Receptacles	<u>45984</u>
1.27mm Pitch EXTreme LPHPower Vertical PCB Receptacles	<u>46113</u>

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