



Part Number : [459851914](#)

Series Number : 45985

Product Category : Board-to-Board  
Connectors

Product Description : EXTreme LPHPower  
Plug, Right-Angle, 10 Power Contacts, Select  
Gold (Au) Plating, for 3.18mm Thick PC Board,  
with Guide Pockets and Press-fit Plastic Pegs  
Status : Active

## Documents & Resources

### Drawings

[Drawing 459851914\\_sd.pdf](#)  
[Packaging Design Drawing PK-45984-001-001.pdf](#)

### 3D Models and Design Files


[3D Model 459851914\\_stp.zip](#)  
[Symbol Footprint Data SYM-45985-1914-001.zip](#)

### Specifications

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

## 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, 10 Power Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board, with Guide Pockets and Press-fit Plastic Pegs
Application	Board-to-Board, Power
Component Type	PCB Header
Product Family	EXTreme LPHPower Connectors
Product Name	EXTreme LPHPower
UPC	800756690124

#### Agency

CSA	LR19980
UL	E29179

#### Electrical

Current - Maximum per Contact	20.0A
Voltage - Maximum	250V AC (RMS)/DC (Power)

#### Physical

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Durability (mating cycles max)	250
First Mate / Last Break	No

Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
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	11.220/g
Number of Rows	2
Orientation	Right Angle
Packaging Type	Tray
PC Tail Length	4.50mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	3.18mm
Pitch - Mating Interface	12.00mm
Pitch - Termination Interface	2.00mm, 2.50mm
Plating min - Mating	0.762µm
Plating min - Termination	3.810µm
Polarized to Mating Part	Yes
Polarized to PCB	No
(p)ower-(s)ignal Configuration	10p - 0s
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole

## Solder Process Data

Max-Duration	15
Lead-Free Process Capability	SMC&WAVE
Max-Cycle	3
Max-Temp	230

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# Mates With / Use With

## Mates with Part(s)

Description	Part Number
EXTreme LPHPower Right-Angle PCB Receptacles	<u>45984</u>
12.00mm Pitch EXTreme LPHPower Vertical PCB Receptacles	<u>46112</u>