



Part Number : 459840451

Product Description : EXTreme LPHPower  
Receptacle Header, Right-Angle, 28 Signal  
Contacts, Select Gold (Au) Plating, for 3.18mm  
Thick PC Board, with Guide Posts and Press-fit  
Plastic Pegs

Series Number : 45984

Status : Active

Product Category : Board-to-Board  
Connectors

## Documents & Resources

### Drawings

- [Drawing 459840451\\_sd.pdf](#)
- [Packaging Design Drawing PK-45984-001-001.pdf](#)

### 3D Models and Design Files


- [3D Model 459840451\\_stp.zip](#)
- [Symbol Footprint Data SYM-45984-0451-001.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	45984
Description	EXTreme LPHPower Receptacle Header, Right-Angle, 28 Signal Contacts, Select Gold (Au) Plating, for 3.18mm Thick PC Board, with Guide Posts and Press-fit Plastic Pegs
Application	Board-to-Board, Signal
Component Type	PCB Receptacle
Product Family	EXTreme LPHPower Connectors
Product Name	EXTreme LPHPower
UPC	884982067356

#### Agency

CSA	LR19980
UL	E29179

#### Electrical

Current - Maximum per Contact	1.0A
Grounding to PCB	No
Voltage - Maximum	30V DC (Signal)

#### Physical

Circuits (Loaded)	28
Circuits (maximum)	28
Color - Resin	Black
Durability (mating cycles max)	250

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	3.019/g
Number of Rows	2
Orientation	Right Angle
Packaging Type	Tray
PC Tail Length	4.50mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	3.18mm
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	28s - 0p
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 Plugs	<u>45985</u>
Mates With	1.57mm Card Edge