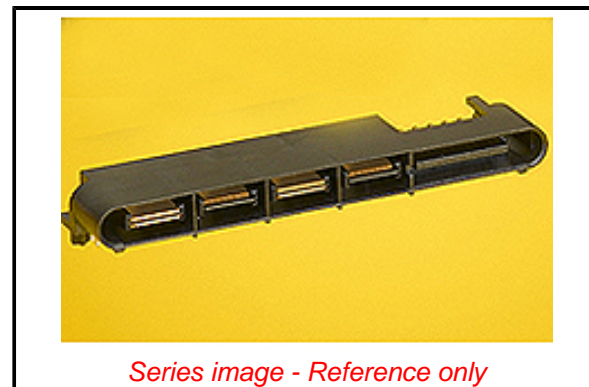


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: **0459851283**
Status: **Active**
Overview: EXTreme LPHPower Connectors
Description: EXTreme LPHPower Header, Right-Angle, 10 Power Contacts, 40 Signal Contacts, Select Gold (Au) Plating, for 1.57mm Thick PC Board, with Guide Pockets

Documents:

| | |
|--|--|
| 3D Model | Packaging Specification PK-45984-001-001 (PDF) |
| 3D Model (PDF) | Symbol Footprint Data SYM-45985-1281-001 (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 Headers |
| Series | <u>45985</u> |
| Application | Board-to-Board, Power |
| Overview | <u>EXTreme LPHPower Connectors</u> |
| Product Name | EXTreme LPHPower |
| UPC | 822350776486 |

Physical

| | |
|--------------------------------|--------------------------------|
| (p)ower-(s)ignal Configuration | 10p - 40s |
| Breakaway | No |
| Circuits (Loaded) | 50 |
| Circuits (maximum) | 50 |
| 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 | 14.173/g |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PC Tail Length | 2.90mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness - Recommended | 1.57mm |
| 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 |
| Shrouded | Fully |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2021)4569-DC (8
July 2021)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

Not Contained

Search Parts in this Series

45985 Series

Mates With

45984 EXTreme LPHPower PCB
Receptacles

| | |
|-------------------------------|----------------|
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface: Style | Through Hole |

Electrical

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

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-45984-001-001 |
| Product Specification | PS-45984-001-001 |
| Sales Drawing | SD-45985-100-001 |
| Symbol/Footprint Data | SYM-45985-1281-001 |

This document was generated on 09/09/2021

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Molex:](#)

[45985-1283](#)