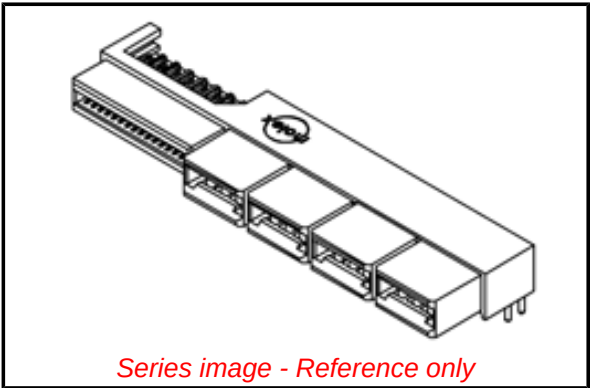


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**Part Number:** [0459848283](#)  
**Status:** **Active**  
**Overview:**  
**Description:** 1.27mm (.050"), 12.00mm (.472") Pitch, EXTreme LPHPower™ Receptacle Header, Right Angle, 8 Power Contacts, 40 Signal Contacts, Select Gold (Au) Plating, for 1.57mm (.062") Thick PC Board, with Guide Posts

**Documents:**  
[3D Model](#) [Product Specification PS-45984-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | PCB Receptacles                |
| Series                         | 45984                          |
| Application                    | Board-to-Board                 |
| Overview                       | EXTreme LPHPower™#153;         |
| Product Name                   | EXTreme LPHPower™              |
| Physical                       |                                |
| Circuits (Loaded)              | 48                             |
| Circuits (maximum)             | 48                             |
| Circuits Detail                | 8 Power, 40 Signal             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 250                            |
| Glow-Wire Compliant            | No                             |
| Guide to Mating Part           | Yes                            |
| 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)            | 0.114 In                       |
| PC Tail Length (mm)            | 2.90 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.57 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**



**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 Wave Capable (TH Capability only)  
Max. Cycles at Max. 3  
Process Temperature  
Process Temperature 260 max. C

**Search Parts in this Series**  
[45984 Series](#)

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

|                                    |                  |
|------------------------------------|------------------|
| Termination Interface: Style       | Through Hole     |
| <b>Electrical</b>                  |                  |
| Current - Maximum                  | 23A              |
| Grounding to PCB                   | No               |
| Voltage - Maximum                  | 250V AC (RMS)/DC |
| <b>Material Info</b>               |                  |
| <b>Reference - Drawing Numbers</b> |                  |
| Product Specification              | PS-45984-001     |
| Sales Drawing                      | SD-45984-800     |

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