



Part Number : 1710970006

Series Number : 171097  
Product Category : Board-to-Board  
Connectors

Product Description : EXTreme EnergetiC  
Right-Angle Plug Assembly, 27 Circuits (25  
Signal/2 Power) with Solder Tail and Pegs  
Mounting  
Status : Active

Documents & Resources


Drawings  
Drawing 1710970006\_sd.pdf  
Packaging Design Drawing PK-171097-0001-001.pdf

3D Models and Design Files  
3D Model 1710970006\_stp.zip

Specifications  
Product Specification PS-171097-1000-001.pdf  
Test Summary TS-171097-0001-001.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<br>(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         | 171097  |
| Description    | EXTreme EnergetiC Right-Angle Plug Assembly, 27 Circuits (25 Signal/2 Power) with Solder Tail and Pegs Mounting |
| Application    | Board-to-Board, Power, Signal   |
| Component Type | PCB Header  |
| Product Family | EXTreme EnergetiC High-Current Connector System   |
| Product Name   | EXTreme EnergetiC   |
| UPC            | 887191586809  |

#### Agency

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

#### Electrical

|                               |        |
|-------------------------------|--------|
| Current - Maximum per Contact | 100.0A |
| Voltage - Maximum             | 40V    |

#### Physical

|                                |       |
|--------------------------------|-------|
| Breakaway                      | No    |
| Circuits (Loaded)              | 27    |
| Circuits (maximum)             | 27    |
| Color - Resin                  | Black |
| Durability (mating cycles max) | 200   |
| First Mate / Last Break        | Yes   |
| Flammability                   | 94V-0 |

|                                |                              |
|--------------------------------|------------------------------|
| Glow-Wire Capable              | No                           |
| Guide to Mating Part           | Yes                          |
| Material - Metal               | High Performance Alloy (HPA) |
| Material - Plating Mating      | Gold                         |
| Material - Plating Termination | Tin                          |
| Material - Resin               | Liquid Crystal Polymer       |
| Net Weight                     | 23.206/g                     |
| Number of Rows                 | 5                            |
| Orientation                    | Right Angle                  |
| Packaging Type                 | Tray                         |
| PC Tail Length                 | 2.71mm, 2.74mm               |
| PCB Thickness - Recommended    | 1.58mm                       |
| Pitch - Mating Interface       | 2.00mm, 6.50mm               |
| Plating min - Mating           | 0.762µm                      |
| Plating min - Termination      | 2.540µm                      |
| Polarized to Mating Part       | Yes                          |
| Polarized to PCB               | Yes                          |
| (p)ower-(s)ignal Configuration | 25s - 2p                     |
| Temperature Range - Operating  | -40° to +105°C               |
| Termination Interface Style    | Through Hole                 |

## Solder Process Data

|                              |          |
|------------------------------|----------|
| Max-Duration                 | 40       |
| Lead-Free Process Capability | SMC&WAVE |
| Max-Cycle                    | 3        |
| Max-Temp                     | 260      |

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## Mates With / Use With

### Mates with Part(s)

| Description                                      | Part Number   |
|--|---------------|
| EXTreme EnergetiC Vertical Receptacle Assemblies | <u>171098</u> |

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