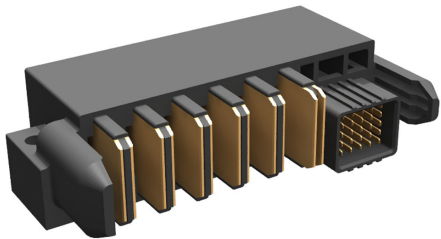




Part Number : [1710970001](#)
Product Description : EXTreme EnergetiC
Right-Angle Plug Assembly, 31 Circuits (25
Signal/6 Power) with Solder Tail and Bolt
Mounting
Series Number : 171097
Status : Active
Product Category : Board-to-Board
Connectors



Documents & Resources

Drawings

[Drawing 1710970001_sd.pdf](#)
[Packaging Design Drawing PK-171097-0100-001.pdf](#)

3D Models and Design Files

[3D Model 1710970001_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(2023)3788-DC (14 Jun 2023)
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

Part Details

General

Status	Active
Category	Board-to-Board Connectors
Series	171097
Description	EXTreme EnergetiC Right-Angle Plug Assembly, 31 Circuits (25 Signal/6 Power) with Solder Tail and Bolt Mounting
Application	Board-to-Board, Power, Signal
Component Type	PCB Header
Product Family	EXTreme EnergetiC High-Current Connector System
Product Name	EXTreme EnergetiC
UPC	887191569499

Agency

UL	E29179
----	--------

Electrical

Current – Maximum per Contact	100.0A
Voltage – Maximum	40V

Physical

Breakaway	No
Circuits (Loaded)	31
Circuits (maximum)	31
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	49.611/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 – 6p
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

Mates With / Use With

Mates with Part(s)

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

Global

Description	Part Number
Crimp Dies for 8 AWG Insulkrimp and NylaKrimp Mylar Tape, use with Tape Crimp Module and TM-4000 Crimp Press	<u>0190472030</u>
Crimp Dies for 8 AWG Insulkrimp Mylar Tape, use with Tape Crimp Module and TM-4000 Crimp Press	<u>0190472060</u>
ATP Crimp Dies for the Tape Crimp Module and ATP-101 & 301 Press	<u>0192880220</u>

This document was generated on Dec 20, 2023