



**Part Number :** 769905020

**Series Number :** 76990

**Product Category :** Backplane Connectors

**Product Description :** Impact 100 Ohm 5 Pair Right-Angle Orthogonal Daughtercard, Right Guide, 10 Columns, 150 Circuits, Plated Through Hole Dimension 0.39mm, Lead-Free

**Status :** Active

Documents & Resources


**Drawings**  
Drawing 769905020\_sd.pdf  
Packaging Design Drawing PK-70873-0611-001.pdf  
Packaging Design Drawing PK-70873-611-001.pdf

**3D Models and Design Files**  
3D Model 769905020\_stp.zip  
Electrical Model Document EE-76990-049-001.pdf  
Electrical Model Document EE-76990-055-001.pdf  
S-Parameter Model SP-76990-049-001.zip  
S-Parameter Model SP-76990-055-001.zip  
Symbol Footprint Data SYM-76990-5020-001.zip

**Specifications**  
Application Specification AS-76060-9999-001.pdf  
Application Specification AS-76850-990-001.pdf  
Product Specification PS-45499-002-001.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)8585-DC (23 Jan 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	Backplane Connectors
Series	76990
Description	Impact 100 Ohm 5 Pair Right-Angle Orthogonal Daughtercard, Right Guide, 10 Columns, 150 Circuits, Plated Through Hole Dimension 0.39mm, Lead-Free
Application	Daughtercard, Orthogonal, Orthogonal Direct, Orthogonal Midplane
Component Type	PCB Receptacle
Product Family	Impact Backplane Connector and Cable Assembly System
Product Name	Impact
UPC	884982580022

### Agency

UL	E29179
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### Electrical

Current - Maximum per Contact	0.75A
Data Rate	25.0 Gbps
Impedance	100Ω
Shield Type	N/A
Shielded	No

Voltage - Maximum	30V AC (RMS)/DC
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## Physical

Circuits (Loaded)	150
Circuits (maximum)	150
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	20.740/g
Number of Columns	10
Number of Pairs	5
Number of Rows	15
Orientation	Right Angle
Packaging Type	Tray
PC Tail Length	1.20mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.00mm
Pitch - Mating Interface	1.90mm, 2.15mm
Pitch - Termination Interface	1.90mm, 2.15mm
Plating min - Mating	0.762µm
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-55° to +85°C
Termination Interface Style	Through Hole - Compliant Pin

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## Mates With / Use With

Mates with Part(s)

Description	Part Number
Impact 100 Ohm 5 Pair Vertical Orthogonal Headers	<u>76985</u>

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