



Part Number : [1714001020](#)

Product Description : Impel 90 Ohm, 6 Pair Right-Angle Daughtercard, 1.90mm Pitch, Unguided, 10 Columns, 120 Circuits, Plated Through Hole Dimension 0.36mm

Series Number : 171400

Status : Active

Product Category : Backplane Connectors

Documents & Resources

Drawings

[Drawing 1714001020_sd.pdf](#)

[Packaging Design Drawing PK-78888-088-001.pdf](#)

3D Models and Design Files

[3D Model 1714001020_stp.zip](#)

[Electrical Model Document 1714002001A-000.pdf](#)

[Electrical Model Document 1714002002-000.pdf](#)

[S-Parameter Model 1714002001-SP-000.zip](#)

[S-Parameter Model 1714002002-000.zip](#)

[Symbol Footprint Data SYM-171400-1020-001.zip](#)

Specifications

[Application Specification 1713209994-AS-000.pdf](#)

[Application Specification AS-171320-990-001.pdf](#)


[Application Specification AS-171320-991-001.pdf](#)

[Application Specification AS-171320-992-001.pdf](#)

[Product Specification PS-171320-999-001.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	Backplane Connectors
Series	171400
Description	Impel 90 Ohm, 6 Pair Right-Angle Daughtercard, 1.90mm Pitch, Unguided, 10 Columns, 120 Circuits, Plated Through Hole Dimension 0.36mm
Application	Coplanar, Daughtercard
Component Type	PCB Receptacle
Product Family	Impel and Impel Plus Backplane Solutions
Product Name	Impel
UPC	887191080659

Agency

UL	E29179
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Electrical

Current - Maximum per Contact	0.75A
Data Rate	40.0 Gbps
Impedance	90Ω
Shield Type	Full Shield
Voltage - Maximum	29.9V AC (RMS)/DC

Physical

Circuits (Loaded)	120
Circuits (maximum)	120
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Nickel, Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	45.146/g
Number of Columns	10
Number of Pairs	6
Number of Rows	12
Orientation	Right Angle
Packaging Type	Tray
PC Tail Length	1.30mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.00mm
Pitch - Mating Interface	1.90mm
Pitch - Termination Interface	1.90mm
Plating min - Mating	0.762µm
Temperature Range - Operating	-55° to +85°C

Solder Process Data

Lead-Free Process Capability	N/A
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Mates With / Use With

Mates with Part(s)

Description	Part Number
Impel 90 Ohm, 6 Pair Vertical Backplane Header, 1.90mm Pitch, Unguided, Open Endwalls, 10 Columns, 120 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.46mm	<u>1713951105</u>
Impel 90 Ohm, 6 Pair Vertical Backplane Header, 1.90mm Pitch, Unguided, Open Endwalls, 10 Columns, 120 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.36mm	<u>1713951107</u>
Impel 90 Ohm, 6 Pair Vertical Backplane Header, 1.90mm Pitch, Unguided, Open Endwalls, 10 Columns, 120 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.36mm	<u>1713951108</u>
Impel 90 Ohm 6 Pair Right-Angle Header, 1.90mm Pitch, Unguided, 10 Columns, Open Endwalls, 120 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.36mm	<u>1721301108</u>