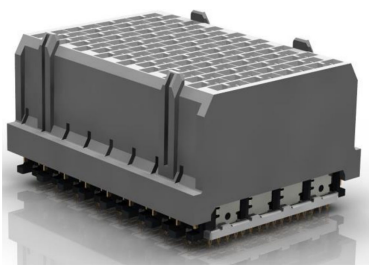




Part Number : [2144401618](#)
Product Description : Impel Plus 90 Ohm, 4-Pair Vertical Receptacle, 1.90mm Pitch, Unguided, 16 Columns, 128 Circuits
Series Number : [214440](#)
Status : Active
Product Category : [Backplane Connectors](#)



Documents & Resources

Drawings

- [Drawing 2144401618_sd.pdf](#)
- [Application Tooling Drawing 2001991947-000.pdf](#)
- [Application Tooling Drawing 2002142281-000.pdf](#)
- [Packaging Design Drawing 2144400018-PK-000.pdf](#)

3D Models and Design Files

- [3D Model 2144401618_stp.zip](#)
- [Application Tooling Model 2001991947-000.zip](#)
- [Application Tooling Model 2002142281-000.zip](#)
- [Electrical Model Document 2144401118-000.pdf](#)
- [S-Parameter Model 2144401118-000.zip](#)

Specifications

- [Application Specification 1727309992-AS-000.pdf](#)
- [Application Specification AS-172730-990-001.pdf](#)
- [Product Specification 1727409990-000.pdf](#)

Tooling Specifications

- [Application Tooling Specification 2001991947-000.pdf](#)
- [Application Tooling Specification 2002142281-000.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 (27 June 2024)

EU RoHS	Compliant per EU 2015/863
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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	214440
Description	Impel Plus 90 Ohm, 4-Pair Vertical Receptacle, 1.90mm Pitch, Unguided, 16 Columns, 128 Circuits
Application	Mezzanine
Component Type	PCB Receptacle
Product Family	Impel and Impel Plus Backplane Solutions
Product Name	Impel Plus
UPC	193264743315

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	0.75A
Data Rate	56.0 Gbps
Impedance	90Ω
Shield Type	Full Shield

Shielded	Yes
Voltage - Maximum	29.9V AC (RMS)/DC

Physical

Circuits (Loaded)	128
Circuits (maximum)	128
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Guide to Mating Part	No
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	20.033/g
Number of Columns	16
Number of Pairs	4
Number of Rows	8
Orientation	Vertical
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
Termination Interface Style	Through Hole - Compliant Pin

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, 4 Pair Vertical Backplane Header, 1.90mm Pitch, Unguided, Open Endwalls, 16 Columns, 128 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.36mm	<u>1713151607</u>
Impel 90 Ohm, 4 Pair Vertical Backplane Header, 1.90mm Pitch, Unguided, Open Endwalls, 16 Columns, 128 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.36mm	<u>1713151608</u>