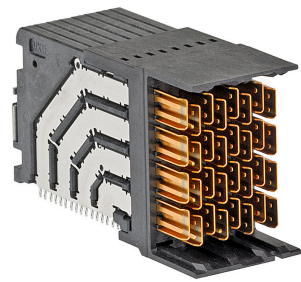




**Part Number :** [1721403208](#)  
**Product Description :** Impel 90 Ohm 4 Pair Right-Angle Header, 1.90mm Pitch, Right Guided, 12 Columns, 96 Circuits, Pin Length 5.50, Plated Through Hole Dimension 0.36  
**Series Number :** 172140  
**Status :** Active  
**Product Category :** Backplane Connectors



## Documents & Resources

### Drawings

[Drawing 1721403208\\_sd.pdf](#)  
[Packaging Design Drawing PK-78888-314-001.pdf](#)

### 3D Models and Design Files

[3D Model 1721403208\\_stp.zip](#)  
[Electrical Model Document 1713202218-000.pdf](#)  
[S-Parameter Model 1713202218-000.zip](#)  
[Symbol Footprint Data SYM-172140-3107-001.zip](#)  
[Symbol Footprint Data SYM-172140-3108-001.zip](#)  
[Symbol Footprint Data SYM-172140-3207-001.zip](#)  
[Symbol Footprint Data SYM-172140-3208-001.zip](#)  
[Symbol Footprint Data SYM-172140-3807-001.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(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

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## Part Details

### General

Status	Active
Category	Backplane Connectors
Series	172140
Description	Impel 90 Ohm 4 Pair Right-Angle Header, 1.90mm Pitch, Right Guided, 12 Columns, 96 Circuits, Pin Length 5.50, Plated Through Hole Dimension 0.36
Application	Backplane, Coplanar
Component Type	PCB Header
Product Family	Impel and Impel Plus Backplane Solutions
Product Name	Impel
UPC	889056026406

### 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)	96
Circuits (maximum)	96
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
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	38.334/g
Number of Columns	12
Number of Pairs	4
Number of Rows	8
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, 4 Pair Right-Angle Daughtercard, 1.90mm Pitch, Left Guided, 12 Columns, 96 Circuits, Plated Through Hole Dimension 0.36mm	<u>1713203022</u>