



Part Number : [1720103020](#)

Product Description : Impel 90 Ohm 5 Pair Right-Angle Daughtercard, 1.90mm Pitch, Left Guided, 10 Columns, 100 Circuits, Plated Through Hole Dimension 0.36mm

Series Number : 172010

Status : Active

Product Category : Backplane Connectors

Documents & Resources

Drawings

[Drawing 1720103020_sd.pdf](#)

[Packaging Design Drawing PK-78888-307-001.pdf](#)

3D Models and Design Files

[3D Model 1720103020_stp.zip](#)

[Electrical Model Document 1720100002-000.pdf](#)

[S-Parameter Model 1720100002-000.zip](#)

[Symbol Footprint Data SYM-172010-3020-001.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 | 172010 |
| Description | Impel 90 Ohm 5 Pair Right-Angle Daughtercard, 1.90mm Pitch, Left Guided, 10 Columns, 100 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 | 887191490830 |

Agency

| | |
|----|--------|
| UL | E29179 |
|----|--------|

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) | 100 |
|-------------------|-----|

| | |
|--------------------------------|--------------------------------|
| Circuits (maximum) | 100 |
| 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 | Nickel, Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 42.158/g |
| Number of Columns | 10 |
| Number of Pairs | 5 |
| Number of Rows | 10 |
| 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 |
|------------------------------|-----|

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|-------------|-------------|
|-------------|-------------|

| | |
|---|-------------------|
| Impel 90 Ohm 5 Pair Vertical Backplane Header, 1.90mm Pitch, Left Guided, 10 Columns, 100 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.36mm | <u>1720053107</u> |
|---|-------------------|

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