



**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(2024)4144-DC (27 June 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         | 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 |
|----|--------|

#### 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> |