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**Part Number:** [1719905038](#)  
**Status:** **Active**  
**Overview:** [Impel and Impel Plus Backplane Solutions](#)  
**Description:** Impel 90 Ohm 3 Pair Right-Angle Daughtercard, 1.90mm Pitch, Right Guided, 8 Columns, 48 Circuits, Plated Through Hole Dimension 0.36mm

**Documents:**

|                                                                   |                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------|
| <a href="#">3D Model</a>                                          | <a href="#">Application Specification AS-171320-991-001 (PDF)</a> |
| <a href="#">3D Model (PDF)</a>                                    | <a href="#">Application Specification AS-171320-992-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                     | <a href="#">Packaging Specification PK-78888-083-001 (PDF)</a>    |
| <a href="#">Product Specification PS-171320-999-001 (PDF)</a>     | <a href="#">Symbol Footprint Data SYM-171990-5038-001 (PDF)</a>   |
| <a href="#">Application Specification AS-171320-990-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |

**General**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Product Family                | Backplane Connectors                                     |
| Series                        | <a href="#">171990</a>                                   |
| Application                   | Coplanar, Daughtercard                                   |
| Application Tooling Documents | TM-622018899-001                                         |
| Component Type                | PCB Receptacle                                           |
| Overview                      | <a href="#">Impel and Impel Plus Backplane Solutions</a> |
| Product Name                  | Impel                                                    |
| UPC                           | 887191896489                                             |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 48                             |
| Circuits (maximum)             | 48                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 200                            |
| First Mate / Last Break        | No                             |
| Guide to Mating Part           | Yes                            |
| Keying to Mating Part          | Yes                            |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Nickel, Tin                    |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 20.519/g                       |
| Number of Columns              | 8                              |
| Number of Pairs                | 3                              |
| Number of Rows                 | 6                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 1.30mm                         |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 1.00mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 1.90mm                         |
| Pitch - Termination Interface  | 1.90mm                         |
| Plating min - Mating           | 0.762µm                        |
| Temperature Range - Operating  | -55° to +85°C                  |

**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 |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[171990 Series](#)

**Mates With**

Impel Vertical Backplane Header  
[1713355807](#)

**Solder Process Data**

Lead-freeProcess Capability N/A

**Material Info**

**Reference - Drawing Numbers**

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Application Specification | AS-171320-990-001, AS-171320-991-001, AS-171320-992-001 |
| Electrical Model Document | 1713402002-000, 1719900001-000                          |
| Packaging Specification   | PK-78888-083-001                                        |
| Product Specification     | PS-171320-999-001                                       |
| S-Parameter Model         | 1713402002-000, 1719900001-000                          |
| Sales Drawing             | SD-171990-0004-001                                      |
| Symbol/Footprint Data     | SYM-171990-5038-001                                     |

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