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**Part Number:** 1717505022
**Status:** Active
**Overview:** Impel™ and Impel™ Plus Backplane Solutions
**Description:** Impel™ 92 Ohm, 2 Pair Right-Angle Daughtercard, 1.90mm Pitch, Right Guided, 12 Columns, 48 Circuits, Plated Through Hole Dimension 0.36mm



*Series image - Reference only*

**Documents:**

- 3D Model
- Drawing (PDF)
- Product Specification PS-171320-999-001 (PDF)
- Application Specification AS-171320-990-001 (PDF)
- Application Specification AS-171320-991-001 (PDF)
- Application Specification AS-171320-992-001 (PDF)
- Packaging Specification PK-78888-313 (PDF)
- RoHS Certificate of Compliance (PDF)

**Agency Certification**

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

**General**

| | |
|---|---|
| Product Family | Backplane Connectors |
| Series | 171750 |
| Application | Coplanar, Daughtercard |
| Component Type | PCB Receptacle |
| Overview | Impel™ and Impel™ Plus Backplane Solutions |
| Product Name | Impel™ |
| UPC | 887191648620 |

**Physical**

| | |
|---|---|
| Circuits (Loaded) | 48 |
| 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 | 13.617/g |
| Number of Columns | 12 |
| Number of Pairs | 2 |
| Number of Rows | 4 |
| 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°C to +85°C |

**Electrical**

| | |
|---|---|
| Current - Maximum per Contact | 0.75A |
| Data Rate | 40.0 Gbps |
| Impedance | 92Ω |
| Shield Type | Full Shield |
| Voltage - Maximum | 150V AC (RMS) |

**EU ELV**
**Not Relevant**

**EU RoHS**
**Compliant**

**China RoHS**

**REACH SVHC**
Not Contained Per - ED/21/2016 (20 June 2016)

**Halogen-Free Status**
**Low-Halogen**

**Need more information on product environmental compliance?**

Email productcompliance@molex.com
Please visit the Contact Us section for any non-product compliance questions.

| | |
|---|---|
| China ROHS | Green Image |
| ELV | Not Relevant |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**
171750 Series

**Mates With**
Impel™ Vertical Backplane Header
171745-5208

**Application Tooling** | **FAQ**

*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*

**Global**

| Description | Product # |
|---|---|
| Impel Daughtercard Removal Tool | 0621009790 |
| Impel™ Daughtercard Press-In Tool | 0622018991 |

**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 |
| Packaging Specification | PK-78888-313 |
| Product Specification | PS-171320-999-001 |
| Sales Drawing | SD-171750-0004 |
| Symbol/Footprint Data | SYM-171750-5022 |

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