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**Part Number:** [1721403808](#)  
**Status:** **Active**  
**Overview:** [Impel™ and Impel™ Plus Backplane Solutions](#)  
**Description:** Impel™ 92 Ohm, 4 Pair Right-Angle Header, 1.90mm Pitch, Right Guided, 8 Columns, 64 Circuits, Pin Length 5.50, Plated Through Hole Dimension 0.36

**Documents:**

|                                                                   |                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------|
| <a href="#">3D Model</a>                                          | <a href="#">Application Specification AS-171320-991-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                     | <a href="#">Application Specification AS-171320-992-001 (PDF)</a> |
| <a href="#">Product Specification PS-171320-999-001 (PDF)</a>     | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |
| <a href="#">Application Specification AS-171320-990-001 (PDF)</a> |                                                                   |

**Agency Certification**

UL E29179

**General**

|                |                                                            |
|----------------|------------------------------------------------------------|
| Product Family | Backplane Connectors                                       |
| Series         | <a href="#">172140</a>                                     |
| Application    | Backplane                                                  |
| Component Type | PCB Header                                                 |
| Overview       | <a href="#">Impel™ and Impel™ Plus Backplane Solutions</a> |
| Product Name   | Impel™                                                     |
| UPC            | 887191898377                                               |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 64                             |
| 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          | Yes                            |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Nickel, Tin                    |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 26.716/g                       |
| Number of Columns              | 8                              |
| Number of Pairs                | 4                              |
| Number of Rows                 | 8                              |
| 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) |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

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

**Halogen-Free**

**Status**

**Low-Halogen**

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environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[172140](#) Series

**Mates With**

[171320-5038](#)

**Solder Process Data**

Lead-freeProcess CapabilityN/A

**Material Info**

**Reference - Drawing Numbers**

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Application Specification | AS-171320-990-001, AS-171320-991-001,<br>AS-171320-992-001 |
| Product Specification     | PS-171320-999-001                                          |
| Sales Drawing             | SD-172140-0002                                             |
| Symbol/Footprint Data     | SYM-172140-3808                                            |

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