



**Part Number :** [1735407016](#)

**Product Description :** Impulse 90 Ohm 4-Pair  
Orthogonal Daughtercard, 2.00mm Pitch, Unguided,  
16 Columns, 64 Differential Pair

**Series Number :** 173540

**Status :** Active

**Product Category :** Backplane Connectors

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## Documents and Resources

### Drawings

[1735407016\\_sd.pdf](#)

[2002142922-000.pdf](#)

[3006410011-000.pdf](#)

[1735402000-000.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[2002142922-000.zip](#)

[3006410011-000.zip](#)

### Specifications

[1735109996-AS-000.pdf](#)

[1735109997-AS-000.pdf](#)

[1735109998-AS-000.pdf](#)

[1735109999-AS-000.pdf](#)

[1735109000-PS-000.pdf](#)

### Tooling Specifications

[2002142922-000.pdf](#)

[3006410011-000.pdf](#)

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## Product Environment Compliance

Compliance

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                          |
| China RoHS         |  per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                          |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                        |
| REACH SVHC         | Not Contained per D(2025)7771-DC (04 Feb 2026)                                                        |
| EU RoHS            | Compliant per EU 2015/863                                                                             |

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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Part Details

General

|                |                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                  |
| Category       | Backplane Connectors                                                                                    |
| Series         | 173540                                                                                                  |
| Description    | Impulse 90 Ohm 4-Pair Orthogonal Daughtercard, 2.00mm Pitch, Unguided, 16 Columns, 64 Differential Pair |
| Application    | Daughtercard                                                                                            |
| Component Type | PCB Receptacle                                                                                          |
| Product Name   | Impulse                                                                                                 |
| UPC            | 195842024366                                                                                            |

## Agency

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

## Electrical

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 0.75A            |
| Data Rate                     | 112 Gbps (PAM-4) |
| Impedance                     | 90Ω              |
| Shielded                      | Yes              |
| Shield Type                   | Full Shield      |
| Voltage - Maximum             | 150V AC (RMS)/DC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 128                            |
| Circuits (maximum)             | 128                            |
| 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          | No                             |
| Material - Metal               | High Performance Copper Alloy  |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 44.362/g                       |
| Number of Columns              | 16                             |
| Number of Pairs                | 4                              |
| Number of Rows                 | 8                              |
| Orientation                    | Right Angle                    |
| Packaging Type                 | Tray                           |
| PCB Locator                    | No                             |
| PCB Retention                  | No                             |
| PCB Thickness - Recommended    | 1.00mm                         |
| PC Tail Length                 | 1.30mm                         |
| Pitch - Mating Interface       | 2.00mm                         |

|                               |                              |
|-------------------------------|------------------------------|
| Pitch - Termination Interface | 2.00mm                       |
| Plating min - Mating          | 0.762µm                      |
| Temperature Range - Operating | -55° to +85°C                |
| Termination Interface Style   | Through Hole - Compliant Pin |

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## Mates With / Use With

### Mates with Part(s)

| Description                                                                                                  | Part Number                       |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Impulse 90 Ohm 8-Pair 270° Orthogonal Header, 2.00mm Pitch, Unguided, 8 Columns, 64 Differential Pair        | <a href="#"><u>1735209003</u></a> |
| Impulse 90 Ohm 8-Pair 90° Orthogonal Header, 2.00mm Pitch, Unguided, 8 Columns, 64 Differential Pair         | <a href="#"><u>1736259003</u></a> |
| Impulse 4-Pair-to-Impulse 4-Pair Cable Assembly, 90 Ohm, 200.00mm Length, 16 Columns, 64 Differential Pairs  | <a href="#"><u>2131114205</u></a> |
| Impulse 4-Pair-to-Impulse 4-Pair Cable Assembly, 90 Ohm, 300.00mm Length, 16 Columns, 64 Differential Pairs  | <a href="#"><u>2131114210</u></a> |
| Impulse 4-Pair-to-Impulse 4-Pair Cable Assembly, 90 Ohm, 500.00mm Length, 16 Columns, 64 Differential Pairs  | <a href="#"><u>2131114220</u></a> |
| Impulse 4-Pair-to-Impulse 4-Pair Cable Assembly, 90 Ohm, 750.00mm Length, 16 Columns, 64 Differential Pairs  | <a href="#"><u>2131114230</u></a> |
| Impulse 4-Pair-to-Impulse 4-Pair Cable Assembly, 90 Ohm, 1000.00mm Length, 16 Columns, 64 Differential Pairs | <a href="#"><u>2131114240</u></a> |