**Part Number :** 2039400205
**Product Description :** Impulse 90 Ohm 6-Pair Vertical Header, 2.00mm Pitch, Unguided, 12 Columns, 72 Differential Pair
**Series Number :** 203940
**Status :** Active
**Product Category :** Backplane Connectors

## Documents and Resources

### Drawings

2039400205_sd.pdf

2002140018-000.pdf

2039400000-PK-000.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

2002140018-000.zip

### Specifications

1735109996-AS-000.pdf

1735109997-AS-000.pdf

1735109998-AS-000.pdf

1735109999-AS-000.pdf

1735109000-PS-000.pdf

### Tooling Specifications

2002140018-000.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33 |

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| | |
|---|---|
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not saleable |
| 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 | 203940 |
| Description | Impulse 90 Ohm 6-Pair Vertical Header, 2.00mm Pitch, Unguided, 12 Columns, 72 Differential Pair |
| Application | Backplane |
| Component Type | PCB Header |
| Product Name | Impulse |
| UPC | 193264400065 |

### Agency

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

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## 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) | 144 |
| Circuits (maximum) | 144 |
| 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 | 13.075/g |
| Number of Columns | 12 |
| Number of Pairs | 6 |
| Number of Rows | 12 |
| Orientation | Vertical |
| 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 |

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| | |
|---|---|
| Termination Interface Style | Through Hole - Compliant Pin |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Impulse 90 Ohm 6-Pair Orthogonal Daughtercard, 2.00mm Pitch, Unguided, 12 Columns, 72 Differential Pair | 1736311012 |



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