



**Part Number :** [1715001022](#)

**Product Description :** Impel 90 Ohm, 6 Pair Right-Angle Orthogonal Daughtercard, 2.35mm Pitch, Unguided, 12 Columns, 144 Circuits

**Series Number :** 171500

**Status :** Active

**Product Category :** Backplane Connectors

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## Documents and Resources

### Drawings

[1715001022\\_sd.pdf](#)

[PK-78888-241-001.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[SYM-171500-1022-001.zip](#)

[1715003218-000.pdf](#)

[1715003218-000.zip](#)

### Specifications

[1713209994-AS-000.pdf](#)

[AS-171320-991-001.pdf](#)

[AS-171320-992-001.pdf](#)


[AS-171500-990-001.pdf](#)

[PS-171320-999-001.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)6375-DC (05 Nov 2025) SCIP:fdd0813a-7fb3-476b-ae93-5cca7ae05033
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

## Part Details

### General

Status	Active
Category	Backplane Connectors
Series	171500
Description	Impel 90 Ohm, 6 Pair Right-Angle Orthogonal Daughtercard, 2.35mm Pitch, Unguided, 12 Columns, 144 Circuits
Application	Daughtercard, Orthogonal, Orthogonal Direct
Component Type	PCB Receptacle
Product Name	Impel
UPC	887191280868

### Agency

UL	E29179
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## 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

## 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	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	59.960/g
Number of Columns	12
Number of Pairs	6
Number of Rows	12
Orientation	Right Angle
Packaging Type	Tray
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	3.00mm
PC Tail Length	1.30mm
Pitch - Mating Interface	2.35mm
Pitch - Termination Interface	2.35mm
Plating min - Mating	0.762μm

Temperature Range - Operating	-55° to +85°C
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## Solder Process Data

Lead-Free Process Capability	N/A
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## Mates With / Use With

### Mates with Part(s)

Description	Part Number
Impel 90 Ohm, 6 Pair Vertical Orthogonal Backplane Header, 1.85/2.35mm Pitch, Unguided Type A, Dual Endwalls, 12 Columns, 144 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.36mm	<a href="#"><u>1714950227</u></a>
Impel 90 Ohm, 6 Pair Vertical Orthogonal Backplane Header, 1.85/2.35mm Pitch, Unguided Type A, Dual Endwalls, 12 Columns, 144 Circuits, Pin Length 5.50mm, Plated Through Hole Dimension 0.36mm	<a href="#"><u>1714950228</u></a>
Impel 90 Ohm, 6 Pair Vertical Orthogonal Backplane Header, 1.85/2.35mm Pitch, Unguided Type B, Dual Endwalls, 12 Columns, 144 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.36mm	<a href="#"><u>1714951226</u></a>
Impel 90 Ohm, 6 Pair Vertical Orthogonal, Backplane Header, 1.85/2.35mm Pitch, Unguided Type B, Dual Endwalls, 12 Columns, 144 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.36mm	<a href="#"><u>1714951227</u></a>
Impel 90 Ohm 6 Pair Orthogonal Direct Right-Angle Header, with Dust Cover, 2.35mm Pitch, Unguided, 12 Columns, 144	<a href="#"><u>1717409288</u></a>

Circuits, 5.50mm Pin Length, 4.40mm Max Board Thickness	
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## Application Tooling

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