

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1719901038](#)  
**Status:** **Active**  
**Overview:** [Impel and Impel Plus Backplane Solutions](#)  
**Description:** Impel 90 Ohm 3 Pair Right-Angle Daughtercard, 1.90mm Pitch, Unguided, 8 Columns, 48 Circuits, Plated Through Hole Dimension 0.36mm

**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="#">3D Model (PDF)</a>	<a href="#">Packaging Specification PK-78888-083-001 (PDF)</a>
<a href="#">Product Specification PS-171320-999-001 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-171990-1038 (PDF)</a>
<a href="#">Application Specification AS-171320-990-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

UL E29179

**General**

Product Family	Backplane Connectors
Series	<a href="#">171990</a>
Application	Coplanar, Daughtercard
Application Tooling Documents	TM-622018899
Component Type	PCB Receptacle
Overview	<a href="#">Impel and Impel Plus Backplane Solutions</a>
Product Name	Impel
UPC	887191383712

**Physical**

Circuits (Loaded)	48
Circuits (maximum)	48
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	Nickel, Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	16.999/g
Number of Columns	8
Number of Pairs	3
Number of Rows	6
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° to +85°C

**Electrical**

Current - Maximum per Contact	0.75A
Data Rate	40.0 Gbps



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2020)4578-DC (25  
June 2020)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[171990 Series](#)

**Mates With**

Impel Vertical Backplane Header  
[1713351805](#) , [1713351807](#) , [1713351808](#)

**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**

<b>Description</b>	<b>Product #</b>
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Impel Daughter Card	<a href="#">621009710</a>
Signal Removal Tool	
Impel Daughter Card	<a href="#">622018903</a>
Press-In Tool	

Impedance	90Ω
Shield Type	Full Shield
Voltage - Maximum	150V AC (RMS)/DC

**Solder Process Data**

Lead-free Process Capability	N/A
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**Material Info****Reference - Drawing Numbers**

Application Specification	AS-171320-990-001, AS-171320-991-001, AS-171320-992-001
Packaging Specification	PK-78888-083-001
Product Specification	PS-171320-999-001
Sales Drawing	SD-171990-0001-001
Symbol/Footprint Data	SYM-171990-1038

This document was generated on 07/27/2020

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