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**Part Number:** [1719905038](#)  
**Status:** **Active**  
**Overview:** [Impel and Impel Plus Backplane Solutions](#)  
**Description:** Impel 90 Ohm 3 Pair Right-Angle Daughtercard, 1.90mm Pitch, Right Guided, 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="#">3D Model (PDF)</a>	<a href="#">Application Specification AS-171320-992-001 (PDF)</a>
<a href="#">Drawing (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-171990-5038 (PDF)</a>
<a href="#">Application Specification AS-171320-990-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**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	887191896489

**Physical**

Circuits (Loaded)	48
Circuits (maximum)	48
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
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	20.519/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
Impedance	90Ω
Shield Type	Full Shield
Voltage - Maximum	150V AC (RMS)/DC



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Contained Per -  
D(2020)4578-DC (25  
June 2020)  
Perfluorohexane-1-  
sulphonic acid and its  
salts  
Tris(4-nonylphenyl,  
branched and linear)  
phosphi  
Zirconia  
Aluminosilicate  
Refractory Ceramic  
Fibr  
1,2-  
benzenedicarboxylic  
acid, dipentylester,  
bra  
Terphenyl,  
hydrogenated  
2-(2H-benzotriazol-2-  
yl)-4-(tert-butyl)-6-  
(sec-b  
2-(2H-benzotriazol-2-  
yl)-4,6-  
ditertpentylphenol  
2-ethylhexyl 10-  
ethyl-4,4-dioctyl-7-  
oxo-8-oxa-3,  
ammoniumpentadecafluorooctanoate  
disodium 4-  
amino-3-[[4'-[(2,4-  
diaminophenyl)azo]  
dibutyltin dichloride  
1,2-diethoxyethane  
disodium 3,3'-[[1,1'-  
biphenyl]-4,4'-  
diylbis(azo)  
decamethylcyclopentasiloxane  
dodecamethylcyclohexasiloxane

**China RoHS**

**Solder Process Data**

Lead-free Process Capability

N/A

**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-171990-0004-001

Symbol/Footprint Data

SYM-171990-5038

benzo[ghi]perylene  
 ethylene thiourea  
 phenanthrene  
 [phthalato(2-)]dioxotrilead  
 Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>),  
 barium salt (1:1),  
 lead-  
 Sulfurous acid, lead  
 salt, dibasic  
 cadmium hydroxide  
 pyrochlore, antimony  
 lead yellow  
 orange lead  
 1,2-bis(2-  
 methoxyethoxy)ethane  
 1,2-dimethoxyethane  
 bis(2-methoxyethyl)  
 phthalate  
 pentazinc chromate  
 octahydroxide  
 tetraboron disodium  
 heptaoxide, hydrate  
 tris(2-chloroethyl)  
 phosphate

**Halogen-Free****Status****Low-Halogen**For more information, please visit [Contact US](#)

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

**Search Parts in this Series**[171990 Series](#)**Mates With**

Impel Vertical Backplane Header

[1713355807](#)**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****Description****Product #**Impel Daughter Card [621009710](#)

Signal Removal Tool

Impel Daughter Card [622018903](#)

Press-In Tool

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