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Part Number: [1714001020](#)
Status: **Active**
Overview: [Impel and Impel Plus Backplane Solutions](#)
Description: Impel 92 Ohm, 6 Pair Right-Angle Daughtercard, 1.90mm Pitch, Unguided, 10 Columns, 120 Circuits, Plated Through Hole Dimension 0.36mm

Documents:

3D Model	Application Specification AS-171320-991-001 (PDF)
Drawing (PDF)	Application Specification AS-171320-992-001 (PDF)
3D Model (PDF)	Packaging Specification PK-78888-088-001 (PDF)
Product Specification PS-171320-999-001 (PDF)	RoHS Certificate of Compliance (PDF)
Application Specification AS-171320-990-001 (PDF)	

Agency Certification

UL E29179

General

Product Family	Backplane Connectors
Series	171400
Application	Coplanar, Daughtercard
Application Tooling Documents	TM-622018899
Component Type	PCB Receptacle
Overview	Impel and Impel Plus Backplane Solutions
Product Name	Impel
UPC	887191080659

Physical

Circuits (Loaded)	120
Circuits (maximum)	120
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
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	48.980/g
Number of Columns	10
Number of Pairs	6
Number of Rows	12
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	92Ω



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
ECHA_01_2020 (16
January 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

[171400 Series](#)

Mates With

Impel Backplane Header [1713951105](#) ,
[1713951107](#) , [1713951108](#) , [1721301108](#)

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 Daughtercard Module Removal Tool	621009750
Impel Daughter Card Press-In Tool	622018919
Installation Press-in Tool for Impel Plus 1.90mm Pitch Daughtercard Unguided Assembly	622019005

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

and RAM Unguided
Assembly (6-Pair by
10 Column)

Solder Process Data

Lead-freeProcess 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-78888-088-001
Product Specification PS-171320-999-001
Sales Drawing SD-171400-0001-001
Symbol/Footprint Data SYM-171400-1020

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