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Part Number: [1714950227](#)
Status: **Active**
Overview: [Impel and Impel Plus Backplane Solutions](#)
Description: 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

Documents:	
3D Model	Application Specification AS-171320-992-001 (PDF)
3D Model (PDF)	Application Specification AS-171500-990-001 (PDF)
Drawing (PDF)	Packaging Specification PK-78888-240-001 (PDF)
Product Specification PS-171320-999-001 (PDF)	Symbol Footprint Data SYM-171495-0227-001 (PDF)
Application Specification AS-171320-991-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
UL	E29179
General	
Product Family	Backplane Connectors
Series	171495
Application	Orthogonal Midplane
Application Tooling Documents	TM-622018899-001
Component Type	PCB Header
Overview	Impel and Impel Plus Backplane Solutions
Product Name	Impel
UPC	887191307855
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	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Nickel, Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	12.530/g
Number of Columns	12
Number of Pairs	6
Number of Rows	12
Orientation	Vertical
PC Tail Length	1.30mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	3.00mm
Packaging Type	Tray
Pitch - Mating Interface	1.85mm, 2.35mm
Pitch - Termination Interface	2.35mm
Plating min - Mating	0.762µm
Temperature Range - Operating	-55° to +85°C
Electrical	
Current - Maximum per Contact	0.75A



Series image - Reference only

EU ELV Not Relevant	
EU RoHS Compliant REACH SVHC Not Contained Per - D(2021)4569-DC (8 July 2021) Halogen-Free Status Low-Halogen For more information, please visit Contact US	China RoHS China ROHS ELV RoHS Phthalates
	Green Image Not Relevant Not Contained

Search Parts in this Series
[171495](#) Series

Mates With
[Impel Right-Angle Orthogonal Daughtercard](#)
[1715001022](#)

Data Rate	40.0 Gbps
Impedance	90Ω
Shield Type	Full Shield
Voltage - Maximum	29.9V AC (RMS)/DC
Solder Process Data	
Lead-freeProcess Capability	N/A
Material Info	
Reference - Drawing Numbers	
Application Specification	AS-171320-991-001, AS-171320-992-001, AS-171500-990-001
Packaging Specification	PK-78888-240-001
Product Specification	PS-171320-999-001
Sales Drawing	SD-171495-0001-001
Symbol/Footprint Data	SYM-171495-0227-001

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