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Part Number: [1715001022](#)
Status: **Active**
Overview: [Impel and Impel Plus Backplane Solutions](#)
Description: Impel 90 Ohm, 6 Pair Right-Angle Orthogonal Daughtercard, 2.35mm Pitch, Unguided, 12 Columns, 144 Circuits

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-78888-241-001 (PDF)
Product Specification PS-171320-999-001 (PDF)	Symbol Footprint Data SYM-171500-1022-001 (PDF)
Application Specification AS-171320-991-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
UL	E29179

General	
Product Family	Backplane Connectors
Series	171500
Application	Daughtercard, Orthogonal, Orthogonal Direct
Application Tooling Documents	TM-622018899-001
Component Type	PCB Receptacle
Overview	Impel and Impel Plus Backplane Solutions
Product Name	Impel
UPC	887191280868

Physical	
Circuits (Loaded)	144
Circuits (maximum)	144
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	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
PC Tail Length	1.30mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	3.00mm
Packaging Type	Tray
Pitch - Mating Interface	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
Data Rate	40.0 Gbps
Impedance	90Ω



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
[171500 Series](#)

Mates With
Impel Vertical Backplane Header
[1714950227](#) , [1714950228](#) , [1714951226](#) ,
[1714951227](#)
Impel Orthogonal Direct
Right-Angle Header [1717409288](#)

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-78888-241-001
Product Specification	PS-171320-999-001
Sales Drawing	SD-171500-0001-001
Symbol/Footprint Data	SYM-171500-1022-001

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