molex



Part Number : 1714950227
Product 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
Series Number : 171495
Status : Not Recommended For New Design
Product Category : Backplane Connectors

Documents & Resources

Drawings

1714950227_sd.pdf

PK-78888-240-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

SYM-171495-0227-001.zip

Specifications

1713209994-AS-000.pdf

AS-171320-991-001.pdf

AS-171320-992-001.pdf

AS-171500-990-001.pdf

PS-171320-999-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21

REACH SVHC	Not Contained per D(2025)4165-DC (25 June 2025)
EU RoHS	Compliant per EU 2015/863

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Not Recommended For New Design
Category	Backplane Connectors
Series	171495
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
Application	Orthogonal Midplane
Component Type	PCB Header
Product Name	Impel
UPC	887191307855

Agency

UL	E29179

Electrical

Current - Maximum per Contact	0.75A
Data Rate	40.0 Gbps
Impedance	90Ω
Shield Type	Full Shield
Voltage - Maximum	29.9V AC (RMS)/DC

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
Packaging Type	Tray
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	3.00mm
PC Tail Length	1.30mm
Pitch - Mating Interface	1.85mm, 2.35mm
Pitch - Termination Interface	2.35mm
Plating min - Mating	0.762µm
Temperature Range - Operating	-55° to +85°C

Solder Process Data

Lead-Free Process Capability	N/A

Mates With / Use With

Mates with Part(s)

Description	Part Number
Impel 90 Ohm, 6 Pair Right-Angle Orthogonal Daughtercard, 2.35mm Pitch, Unguided, 12 Columns, 144 Circuits	1715001022

Application Tooling