VLINK
An AFR Company

Vlink Optics Corporation

High Density PM Fiber Jumper for High-Speed Coherent Optics and AI Clusters

Description

Vlink's High Density PM Fiber Jumper series delivers exceptional polarization stability for High-Speed coherent optics and AI clusters. As bandwidth scales beyond 800G, our jumpers ensure high PER, low insertion loss, and robust reliability in Space-Constrained modules. With precision alignment and stringent process control, Vlink provides the critical interconnect for silicon photonics and Next-Gen optical systems

Key Features

- High Polarization Extinction Ratio (PER)
- Ultra-Precise Core Pitch Control
- Low Insertion Loss & High Return Loss
- Specialty Fiber Integration
- High-Density & Low-Profile Design
- Robust Reliability

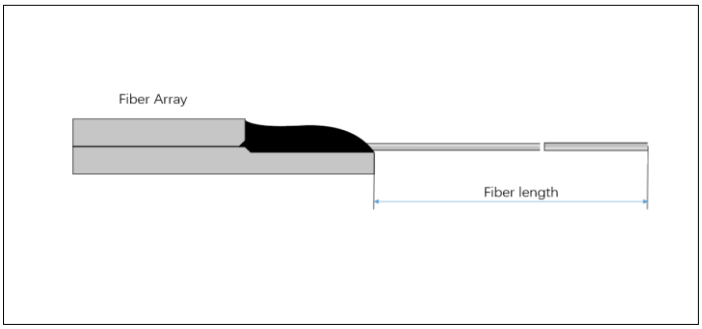
Applications

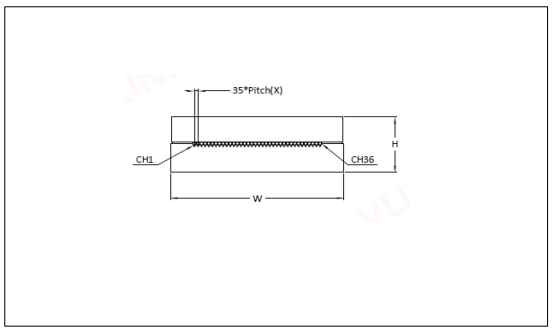
- CPO (Co-Packaged Optics)
- AI/ML Clusters & GPU-to-GPU Interconnects
- Silicon Photonics (SiPh) Chip-Level Packaging
- High-Performance Computing (HPC) Architectures
- 7. Coherent Optical Transceivers (400G/800G)

Specifications

Parameter	Unit	Value
Wavelength	nm	1310
Fiber Count		8 ch, 16 ch, 32 ch,40 ch, 80 ch + (Customizable)
Max. Connector Insertion Loss	dB	0.5
Max. Coupling Insertion Loss	dB	1.0
Min. Return Loss	dB	30.0
Min. PER	dB	20.0
Fiber Pitch Spacing	μm	84 μm, 127 μm, 250 μm (Customizable)
Max. Core Pitch Error	μm	± 0.7
Fiber Type	-	SM (G.657.A1/A2), PM Fiber, RCBI (Reduced-Clad)
Termination Connector Type	-	LC, FC, MPO, MMC, ELSFP Connector (Customizable)
Operating Temperature	°C	- 40 °C to + 85 °C

Package Dimensions





Ordering Information

FA-①-②-③-④-⑤

①: Fiber Count
08 - 8 Channel
16 - 16 Channel
40 - 40 Channel
S - Specify

②: Fiber Pitch Spacing
1 - 84 μm
2 - 127 μm
3 - 250 μm
SS - Specify

③: Fiber Type
F - SM Fiber
P - PM Fiber
R - RCBI Fiber
S - Specify

④: Connector Type
N - None
S - Specify

⑤: Fiber Length
1 - 1 m
S - Specify