

2D FAU with Hermetic Feedthrough for WSS Application

Description

Vlink's 2D non-linear Fiber Array Units (FAUs) are manufactured using high-precision, high-density V-Groove substrates, resulting in optimal fiber core positioning accuracy and superior polished surfaces. Our FAUs offer a comprehensive range of features, including low insertion loss, high return loss, compact size, and hermetic sealing, making them adaptable to diverse customer requirements.

Key Features

- Non-Linear and Low Insertion Loss
- High Density
- Hermetic Sealing

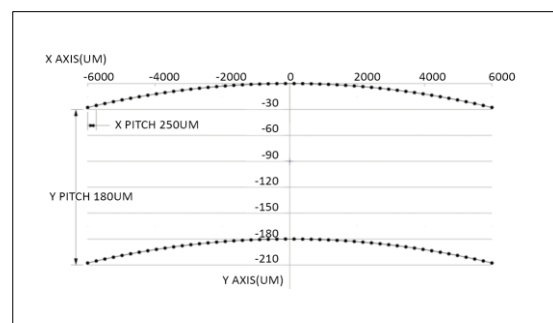
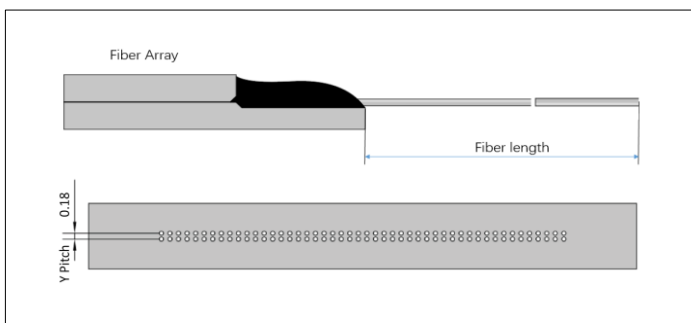
Applications

- WSS (Wavelength Selective Switch)

Specifications

Parameter	Unit	Value
Wavelength	nm	1310, 1480, 1550 or 1620
Channel Count		9/18/24/36/40/44/72/128/256
Typ. Insertion Loss	dB	0.10
Max. Insertion Loss	dB	0.15
Max. Pitch Error	μm	0.5
Fiber Length Tolerance	%	± 10 or Specify
Operating Temperature	°C	- 5 to + 70
Storage Temperature	°C	- 40 to + 85
Max. Helium Leak Rate	Pa. m ³ /s	1.0 × 10 ⁻⁹

Package Dimensions



Customized Core Pitch Curve

Ordering Information

①: Fiber Count

1 - 24 Channel

2 - 44 Channel

S - Specify

②: AR-Coating

NO - NO Coating

1 - R < 0.05% @ 1520 - 1630 nm

2 - R < 0.25% @ 1520 - 1630 nm

S - Specify

③: Material Type

1 - Borosilicate

2 - Fused Silica

3 - Silicon

S - Specify

④: Port Spacing

- 1 - 127 μm
- 2 - 205 μm
- 3 - 250 μm
- S - Specify

⑤: Polishing Angle

- 1 - 0°
- 2 - 8°
- 3 - 10°
- S - Specify

⑥: Fiber Length

- 1 - 1 m
- S - Specify

⑦: Fiber Type

- 1 - SM Fiber
- 2 - PM Fiber
- S - Specify

⑧: FAU Thickness

- 1 - 0.8 - 1.49 mm
- 2 - 1.5 - 1.99 mm
- S - Specify

⑨: Connector Type

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- 5 - LC/UPC
- 6 - LC/APC
- 7 - MT
- 8 - MPO
- N - None
- S - Specify