

Optizone Twin Polarization Maintaining Isolator

Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- Low Cost

Applications

- Fiber Optic Lasers
- Fiber Amplifiers
- Fiber Sensors
- Research

Specifications

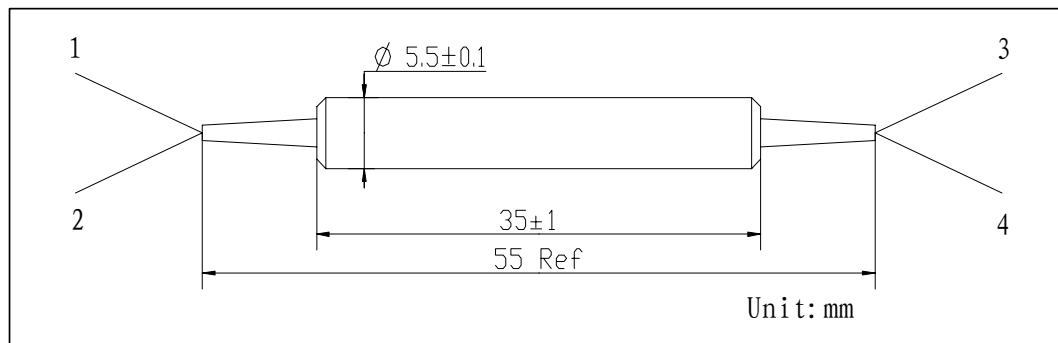
Parameters	Unit	Values	
		Single Stage	Dual Stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±20	
Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	42	58
Min. Isolation (Port 4 to Port 1, Port 3 to Port 2) at 23°C	dB	28	48
Typ. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at 23°C	dB	0.45	0.55
Max. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3)	dB	0.65	0.75
Min. Return Loss (Input/Output)	dB	50	50
Min. Directivity (Port 1 to Port 2, Port 3 to Port 4) at 23°C	dB	50	50
Min. Crosstalk (Port 1 to Port 3, Port 2 to Port 4) at 23°C	dB	50	50
Min. Extinction Ratio (only for B-Type)	dB	20	20
Min. Extinction Ratio (only for F-Type)	dB	22	22
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

TPMI-①①-②-③-④④④④-⑤⑤⑤⑤-⑥

- ①①: Wavelength
- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

- ③: Axis Alignment
- F - Fast Axis Blocked
- B - Both Axis Working

- ④④④④: Connector Type on Port 1 & 2
- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

- ⑤⑤⑤⑤: Fiber Jacket on Port 1 & 2
- B - 250um Fiber
- D - 400um Fiber
- L - 900um Loose Tube
- S - Specify

- ②: Stage
- S - Single Stage
- D - Dual Stage

- ⑥: Fiber Length
- 0.8 - 0.8m
- S - Specify