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

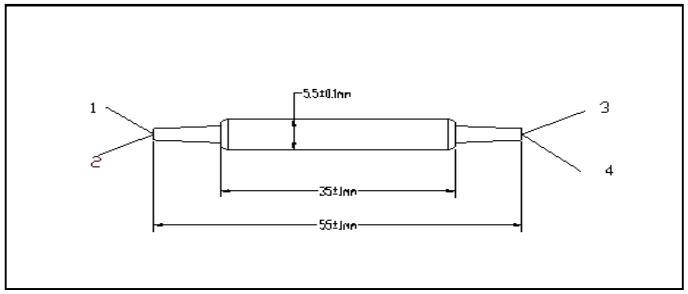
Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±20	
Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	42	58
Min. Isolation (Port 4 to Port 1, Port 3 to Port 2) at 23℃	dB	28	48
Typ. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at 23℃	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℃	dB	50	50
Min. Crosstalk (Port 1 to Port 3, Port 2 to Port 4) at 23℃	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	℃	-5 to +70	
Storage Temperature	℃	-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

ATPMI-①①-②-③-④④④④-⑤⑤⑤⑤-⑥

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

②: Stage
S - Single Stage
D - Dual Stage

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

⑥: Fiber Length
0.8 - 0.8m
S - Specify