Twin Polarization Insensitive Isolator

Features

Low Insertion Loss
High Isaolation
Excellent Temperature Stability
Low Temperature Dependence

Applications

EDFA
Instrumentation
Fiber Lasers
Research

Specifications

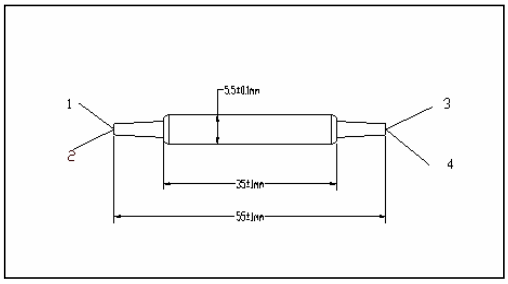
Parameters	Unit	Values			
Stage		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550			
Operating Wavelength Range	nm	±20			
Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	42	40	58	55
Min. Isolation (Port 4 to Port 1, Port 3 to Port 2) at 23℃	dB	28	26	48	45
Typ. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at 23℃	dB	0.45	0.55	0.55	0.7
Max. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3) at -5℃-70℃	dB	0.65	0.75	0.75	0.9
Min. Return Loss (Input/Output)	dB	55 / 55	55 / 55	55 / 55	55 / 55
Min. Directivity (Port 1 to Port 2, Port 3 to Port 4) at 23℃	dB	55	55	55	55
Min. Crosstalk (Port 1 to Port 3, Port 2 to Port 4) at 23℃	dB	55	55	55	55
Max. PDL at 23℃	dB	0.05	0.1	0.05	0.15
Max. PMD	ps	0.2[1]	0.25[1]	0.05	0.07
Max. Optical Power (CW)	mW	500			
Max. Tensile Load	N	5			
Fiber Type		SMF-28e Fiber			
Operating Temperature	℃	-5 to +70			
Storage Temperature	℃	-40 to +85			

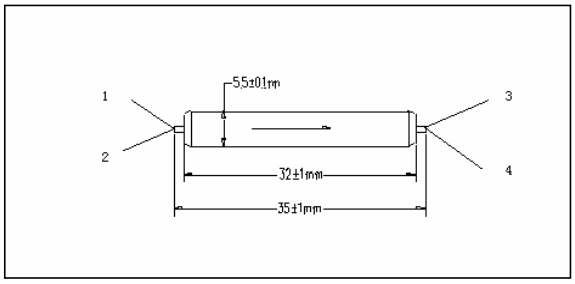
*PMD<0.05ps is available. Please refer to below ordering information.

*Above specifications are for device without connector.

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

Package Dimensions





Ordering Information

TPII-1 ①①-②-③-④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧

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

②:Grade
P - Premium Grade
A - A Grade

③: Stage
S - Single Stage
D - Dual Stage

④: PMD
1 - 0.05ps Max
2 - Refer to above Spec.

⑤⑤⑤⑤:Connector Type on Port 1, 2, 3 & 4
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑥⑥⑥⑥: Fiber Jacket on Port 1, 2, 3 & 4
B - 250um Bare Fiber
L - 900um Loose Tube

⑦: Fiber Length
1 - 1.0m
S - Specify

⑧: Package Length
1 - 35mm
2 - 32mm