Optizone Twin Polarization Insensitive Isolator

Features

Low Insertion Loss
High Isaolation
Excellent Temperature Stability
Low Temperature Dependence

Applications

EDFA
Instrumentation
Fiber Lasers
Research

Specifications

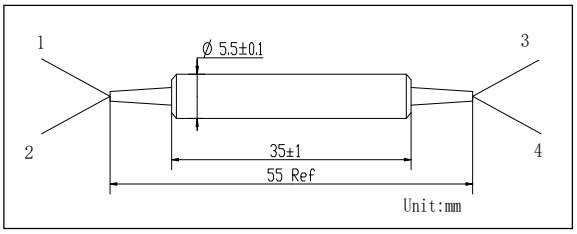
Parameters	Unit	Values			
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550			
Operating Wavelength Range	nm	±20			
Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	42	40	58	55
Min. Isolation (Port 4 to Port 1, Port 3 to Port 2) at λc	dB	34	32	52	50
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℃ λc	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	0.06	0.1	0.08	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			

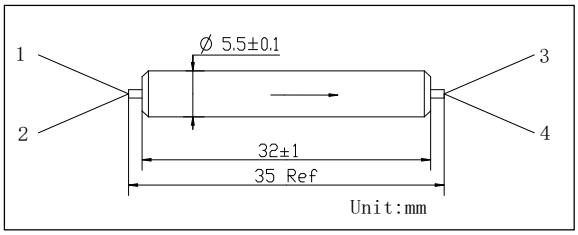
*PMD<0.05ps is available. Please refer to below ordering information.

*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-①①①①-②-③-④-⑤-⑥⑥-⑦⑦-⑧-⑨-⑩⑩

①①①①: Wavelength
1310 - 1310nm
1480 - 1480nm
1550 - 1550nm
S - Specify

②: Grade
P - Premium Grade
A - A Grade

③: Stage
S - Single Stage
D - Dual Stage

④: Handing Power
0.5 - 0.5W

⑤: PMD
1 - 0.05ps Max.
2 - Refer to above Spec

⑥⑥: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑦⑦: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
F - 900um White Loose Tube
S - Specify

⑧: Fiber Type
5 - SMF-28e Fiber

⑨: Fiber Length
1 - 1m
S - Specify

⑩⑩: Package Type
01 - Ø5.5×35
10 - Ø5.5x35(Without rub)