



Mini 2 in 1 Polarization Insensitive Isolator (MTPI Series)

Rev 11C

Description

The Twin Isolator integrates two independent isolators into one standard isolator package and is excellently suited for EDFAs or instrumentation designs where two or more isolators are used. The Twin Optical Isolator offers excellent temperature stability, low insertion loss, high isolation, low temperature dependence and great space saving.

Key Features

- Low Insertion Loss
- High Isolation

Applications

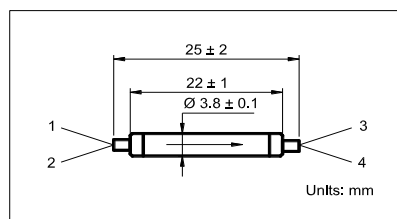
- EDFA
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value	
Stage	-	Dual Stage	
Grade	-	Grade P	Grade A
Center Wavelength (λ_c)	nm	1550	
Typ. Peak Isolation (4 → 1, 3 → 2)	dB	52	50
Min. Isolation (4 → 1, 3 → 2), $\lambda_c \pm 15$ nm, All Polarization, 23 °C	dB	40	38
Typ. Insertion Loss (1 → 4, 2 → 3), λ_c , All Polarization, 23 °C	dB	0.6	0.75
Max. Insertion Loss (1 → 4, 2 → 3), $\lambda_c \pm 20$ nm, All Polarization	dB	0.9	1.0
Min. Return Loss (Input/Output)	dB	55/55	55/55
Min. Directivity (1 → 2, 3 → 4), λ_c , 23 °C	dB	55	55
Min. Crosstalk (1 → 3, 2 → 4), λ_c , 23 °C	dB	50	50
Max. Polarization Dependent Loss, λ_c , 23 °C	dB	0.1	0.2
Max. Polarization Mode Dispersion	ps	0.07	0.1
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28 Fiber	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	

¹IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

MTPI-①-②②-③-④-⑤-⑥-⑦

①: Stage	②②: Wavelength	③: Grade	④: PMD
2 - Dual Stage	55 - 1550 nm	P - Premium	2 - Refer to Above Spec
	SS - Specify	A - A Grade	

⑤: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑥: Fiber Jacket

B - 250 μ m Bare Fiber

S - Specify

⑦: Fiber Length

1 - 1.0 m

S - Specify