

Isolator/Filter Wavelength Division Multiplexer Hybrid 980/1550 nm (IWDM Series)

Rev 11

Description

The 980/1550 IWDM series combines filter WDM and isolator into a compact package to offer cost saving solution. This device is ideal for fiber amplifier application to combine signal and pump wavelengths with very stable 1550 nm signal isolation. It is designed according to Telcordia standard and capable of high power handling.

Key Features

- Low Insertion Loss
- Compact Size

Applications

- Raman Amplifier
- Fiber Sensing

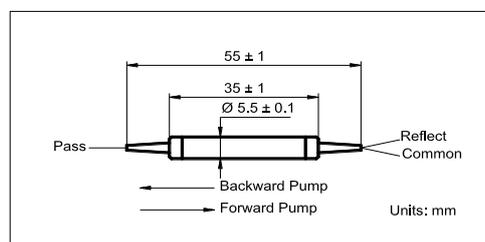
Specifications

Parameter	Unit	Value	
		Single Stage	Dual Stage
Stage	-	Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	1530 - 1580	
	Max. Insertion Loss	0.8	1.0
	Typ. Insertion Loss	0.6	0.8
	Typ. Peak of Signal Isolation	40	55
	Min. Signal Isolation (1550 ± 10 nm for Single Stage, 1550 ± 30 nm for Dual Stage), 23 °C	30	45
	Max. Polarization Dependent Loss	0.1	0.15
	Max. Polarization Mode Dispersion	0.25 ¹	0.05
Reflection Band	Wavelength Range	950 - 1010	
	Max. Insertion Loss	0.6	
	Typ. Insertion Loss	0.4	
	Max. Polarization Dependent Loss	0.1	
Min. Return Loss		50	
Thermal Stability		0.005	
Max. Optical Power (Continuous Wave)		300	
Max. Tensile Load		5	
Fiber Type		SMF-28 Fiber for Pass Port	
		HI 1060 Fiber for Reflect and Common Ports	
Operating Temperature		- 5 to + 70	
Storage Temperature		- 40 to + 85	

¹Low PMD version is available. PMD < 0.05 ps.

²IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

IWDM-98-①-②-③-④-⑤-⑥

①: Pump Type

- 1 - Forward Pump
- 2 - Backward Pump

②: Stage Type

- 1 - Single Stage
- 2 - Dual Stage

③: PMD

- 1 - 0.05 ps Max
- 2 - Refer to Above Spec

④: Connector Type

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

⑤: Fiber Jacket

- B - 250 μ m Bare Fiber
- L - 900 μ m Loose Tube
- S - Specify

⑥: Fiber Length

- 1 - 1.0 m
- S - Specify