Polarization Maintaining Isolator/Wavelength Division Multiplexer Hybrid (PMIWDM Series)

Rev 11B

Description

The PMIWDM series combines Filter WDM and isolator into a compact package to offer a cost saving solution. This device is ideal for fiber amplifier applications to combine signal and pump wavelengths with very stable 1550 nm signal isolation. It is designed and manufactured according to Telcordia standard.

Key Features

- Compact Size
- Low Insertion Loss

Applications

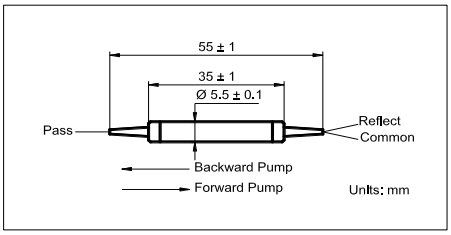
- Raman Amplifier
- Fiber Lasers

Specifications

Parameter		Unit	Value	
Stage		-	Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	nm	1530 - 1580	
	Max. Insertion Loss	dB	1.0	1.2
	Forward: Pass → Common			
	Backward: Common → Pass			
	Typ. Peak of Signal Isolation	dB	40	55
	Min. Signal Isolation (1550 ± 10 nm), 23 ℃	dB	30	45
	Forward: Common → Pass			
	Backward: Pass → Common			
Reflection Band	Wavelength Range	nm	950 - 1010	
	Max. Insertion Loss, Reflect → Common	dB	0.6	
Min. Extinction Ratio, 23 ℃		dB	20	
Min. Return Loss		dB	50	
Max. Optical Power (Continuous Wave)		mW	300	
Fiber Type		-	PM 1550 Panda Fiber for Pass Port	
		-	PM 980 Panda Fiber for Common Port	
		-	HI 1060 or PM 980 Panda Fiber for Reflect Port	
Max. Tensile Load		N	5	
Operating Temperature		℃	- 5 to + 70	
Storage Temperature		℃	- 40 to + 85	

[1]IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMIWDM-98-①-②-③-④-⑤-⑥-⑦

①: Pump Type
1 - Forward Pump
2 - Backward Pump

②: Stage Type
1 - Single Stage
2 - Dual Stage

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

④: Fiber Jacket
B - 250 μm Bare Fiber
L - 900 μm Loose Tube
S - Specify

⑤: Fiber Type for Reflect Port
H - HI 1060 Fiber
P - PM 980 Panda Fiber
S - Specify

⑥: Fiber Length
Q - 0.75 m
S - Specify

⑦: Working Axis
F - Fast Axis Blocked
B - Both Axis Working