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

Rev 10

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.

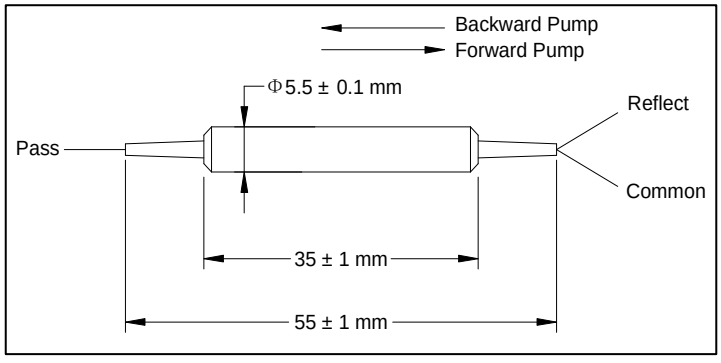
Specifications

Parameter		Unit	Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	nm	1530 - 1580	
	Max. Insertion Loss	dB	0.8	1.0
	Typ. Insertion Loss	dB	0.6	0.8
	Typ. Peak of Signal Isolation	dB	40	55
	Min. Signal Isolation (1550 ± 10 nm for single stage, 1550 ± 30 nm for dual stage, at 23 ℃)	dB	30	45
	Max. Polarization Dependent Loss	dB	0.1	0.15
	Max. Polarization Mode Dispersion	ps	0.25[1]	0.05
Reflection Band	Wavelength Range	nm	950 - 1010	
	Max. Insertion Loss	dB	0.5	
	Typ. Insertion Loss	dB	0.3	
	Max. Polarization Dependent Loss	dB	0.1	
Min. Return Loss		dB	50	
Thermal Stability		dB/℃	0.005	
Max. Optical Power (Continuous Wave)		mW	300	
Max. Tensile Load		N	5	
Fiber Type			SMF-28 fiber	
Operating Temperature		℃	-5 to +70	
Storage Temperature		℃	-40 to +85	

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

*IL 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 Type
B - 250 μm bare fiber
L - 900 μm loose tube
S - Specify

⑥: Fiber Length
1 - 1.0 m
S - Specify

Remark: SMF-28 is used for Pass Port and HI 1060 is used for Reflection and Common port.