

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

Rev 11

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.

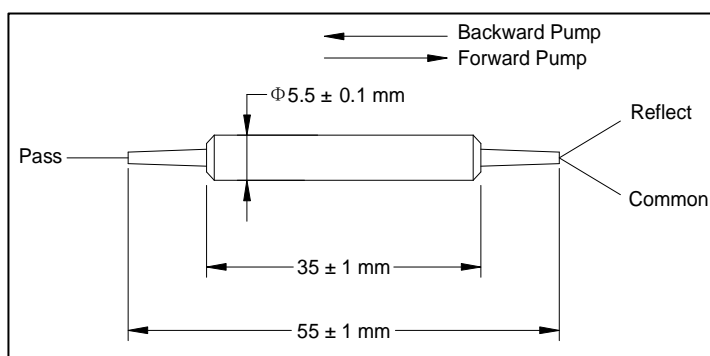
Specifications

Parameter	Unit	Single Stage	Dual Stage
Pass Band			1530 - 1580
Signal Wavelength Range	nm		
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, 23 °C)	dB	30	45
Max. Polarization Dependent Loss	dB	0.1	0.15
Max. Polarization Mode Dispersion	ps	0.25 ¹	0.05
Reflection Band			950 - 1010
Wavelength Range	nm		
Max. Insertion Loss	dB		0.6
Typ. Insertion Loss	dB		0.4
Max. Polarization Dependent Loss	dB		0.1
Min. Return Loss	dB		50
Thermal Stability	dB/°C		0.005
Max. Optical Power (Continuous Wave)	mW		300
Max. Tensile Load	N		5
Fiber Type		SMF-28 fiber for Pass Port HI 1060 fiber for Reflect and Common Ports	
Operating Temperature	°C		-5 to +70
Storage Temperature	°C		-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	②: Stage Type	③: PMD	④: Connector Type
1 - Forward pump	1 - Single stage	1 - 0.05 ps max	1 - FC/UPC
2 - Backward pump	2 - Dual stage	2 - Refer to above spec	2 - FC/APC
			3 - SC/UPC
			4 - SC/APC
			N - None
			S - Specify
⑤: Fiber Jacket	⑥: Fiber Length		
B - 250 μ m bare fiber	1 - 1.0 m		
L - 900 μ m loose tube	S - Specify		
S - Specify			