

Polarization Maintaining Filter WDM

Filter Wavelength Division Multiplexing (FWDM) is a device for optical wavelength management. It utilizes proven ultra-low-loss thin-film filter (TFF) technology and proprietary design of non-flux metal bonding micro optics packaging. It features small size, high reliability, high extensibility, high channel isolation, epoxy free optical path, simultaneous transmission of multi-wavelength. FWDM has gained prevalence in multi-wavelength digital transport architectures because it enables the use of very low cost uncooled distributed feedback (DFB) laser transmitters. All products meet GR-1209-CORE, GR-1221-CORE requirements. It's applied for System Monitoring, Transmitters and Fiber lasers, WDM system, Fiber optical amplifier etc.

Specification

Parameter		Unit	Value				
			980/1064	1064/980	1550/980	1550/1064	1550/1480
Pass Band	Wavelength Range	nm	960~990	1020~1080	1520~1580	1500~1600	1530~1600
	Max. Insertion Loss	dB	0.8	0.8	0.7	0.8	0.7
	Min. Isolation	dB	25				
Reflection Band	Wavelength Range	nm	1020~1080	960~990	960~990	1040~1064	1400~1500
	Max. Insertion Loss	dB	0.6	0.6	0.5	0.6	0.5
	Min. Isolation	dB	12				
Min. Return Loss		dB	50				
Min. Extinction Ratio		dB	20				
Thermal Stability		dB/°C	≤0.005				
Max. Optical Power (CW)		mW	500				
Fiber Type	Comm & Pass port		PM980		PM1550		PM1550
	Reflection port		HI1060 or PM980		HI1060 or PM1550		SMF-28e or PM1550
Operating Temperature		°C	0 to +65				
Storage Temperature		°C	-40 to +85				

Above specifications are for device without connector.

Device with connector, IL will be 0.3dB higher, ER will be 2dB lower and RL will be 5dB lower.

The PM fiber and the connector key are aligned to the slow axis.

Package Dimension

