Polarization Maintaining Dense Wavelength Division Multiplexer (PMDWDM Series)

The PMDWDM series is designed and manufactured according to Telcordia standard and ITU standard, it preserves the polarization of optical signals. The devices use environmentally stable thin film filter and advanced packaging technology to achieve wide passband, low insertion loss, high channel isolation, excellent environmental stability and high extinction ratio. They can be used individually to perform single channel add or drop function or can be used in DWDM systems and fiber sensor systems, etc.

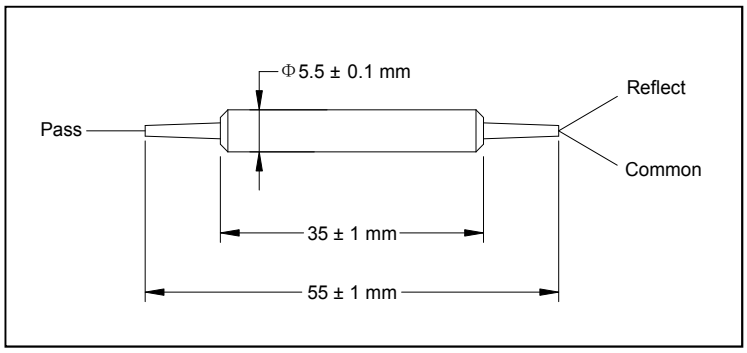
Specifications

Parameter		Unit	Value	
Filter Type			200 GHz	100 GHz
Pass Band	Center Wavelength	nm	ITU Grid	
	Min. Bandwidth @ 0.5 dB	nm	0.5	0.16
	Typ. Bandwidth @ 0.5 dB	nm	0.7	0.4
	Max. Insertion Loss @ Common→Pass	dB	1.0	1.2
	Typ. Insertion Loss @ Common→Pass	dB	0.8	1.0
	Min. Channel Isolation @ Common→Pass	dB	25	25
	Typ. Channel Isolation @ Common→Pass	dB	30	30
Reflection Band	Max. Insertion Loss @ Common→Reflect	dB	0.5	0.5
	Typ. Insertion Loss @ Common→Reflect	dB	0.3	0.3
	Min. Channel Isolation @ Common→Reflect	dB	12	12
	Typ. Channel Isolation @ Common→Reflect	dB	15	15
Typ. Extinction Ratio @ 23 ℃		dB	22	22
Min. Extinction Ratio @ 23 ℃		dB	20	20
Directivity		dB	50	50
Min. Return Loss		dB	50	50
Center Wavelength Stability		nm/℃	0.002	
Thermal Stability		dB/℃	0.005	
Max. Optical Power		mW	300	
Fiber Type			PM Panda fiber	
Max. Tensile Load		N	5	
Operating Temperature		℃	-5 to +70	
Storage Temperature		℃	-40 to +85	

* IL is 0.3 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

PMDWDM-①②②③④⑤

①: Channel Spacing	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
1 - 100 GHz	1 - FC/UPC	B - 250 μm Panda fiber	Q - 0.75 m
2 - 200 GHz	2 - FC/APC	L - 900 μm loose tube	S - Specify
	3 - SC/UPC	S - Specify	
②②: ITU Grid	4 - SC/APC		
	N - None		