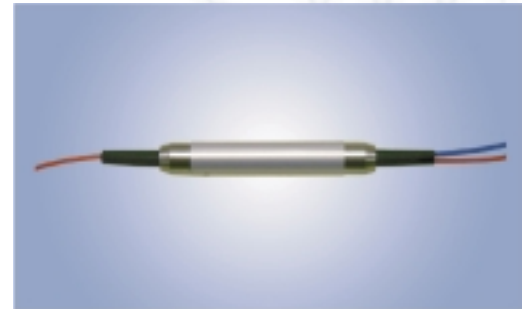




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# PM Wavelength Division Multiplexer

Polarization Maintaining Wavelength Division Multiplexer (PMWDM) using Thin Film Filters technology (TFF) combine light with different wavelengths into a fiber or separate an optical signal into two fibers with special feature - maintaining polarization. This device provides low insertion loss and high return loss with high polarization extinction ratio.



## Types

- Fused WDM
- Thin Film Filter WDM
- MultiMode WDM
- Polarization Maintaining WDM

## Applications

- High Speed DWDM Systems
- Erbium-Doped Fiber Amplifiers
- CATV

## Features

- Low Insertion Loss
- High Return Loss
- High Polarization Extinction Ratio
- Environmentally Stable



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## SPECIFICATIONS

### Polarization Maintaining WDM (1310nm & 1480nm & 1550nm)

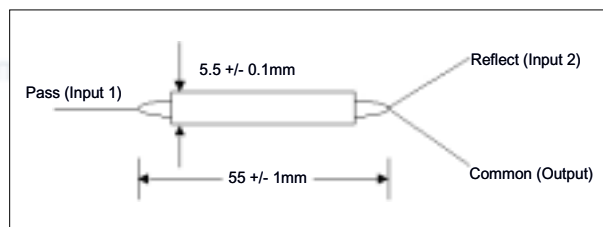
Parameter		Values			Units	
Passband	Wavelength Range	1270~1350(1530~1600)	1450~1490(1530~1600)	1500~1520(1530~1570)	nm	
	Insertion Loss	Max.	0.6		0.7	dB
		Typ.	0.4		0.5	dB
	Isolation	Min.	25			dB
Typ.		30			dB	
Reflection Band	Wavelength Range	1530~1600(1270~1350)	1530~1600(1450~1490)	1530~1570(1500~1520)	nm	
	Insertion Loss	Max.	0.5		dB	
		Typ.	0.3		dB	
	Isolation	Min.	12			dB
Typ.		15			dB	
Extinction Ratio	Min.	20			dB	
Return Loss	Min.	50			dB	
Optical Power	Max.	300			mW	
Tensile Load	Max.	5			N	
Thermal Stability	Max.	0.005			dB/°C	
Operating Temperature		-5 to +70			°C	
Storage Temperature		-40 to +85			°C	

\*Above specifications are for device without connectors.

### Polarization Maintaining WDM (1064nm)

Parameter		Values	Units
Passband	Wavelength Range	980 +/-10	nm
	Max. Insertion Loss	1.0	dB
Reflection Band	Wavelength Range	1064 +/-10	nm
	Max. Insertion Loss	0.7	dB
	Min. Isolation @ Passband Wavelength	12	dB
Max. Variation Insertion Loss		0.3	dB
Min. Extinction Ratio		20	dB
Min. Return Loss		50	dB
Max. Tensile Load		5	N
Signal Blocking (Input 2 to Input 1, 1064nm)		60 (Typ), 55 (Min)	dB
Max. Optical Power		300	mW
Operating Temperature		-5 to +70	°C
Storage Temperature		-40 to +85	°C

\*Above specifications are for device without connectors.



## ORDERING CODES

OLWDM - P - [ ] - [ ] - [ ]

Fiber Type	Code
250um Panda Fiber	25
900um loose tube Panda Fiber	90
Others	XX

Connector Type	Code
No Connector	NC
FC/UPC	FU
SC/UPC	SU
FC/APC	FA
SC/APC	SA
Others	XX

Wavelength	Code
1310Pass/1550Reflection	1315
1550Pass/1310Reflection	1315R
1480Pass/1550Reflection	1415
1550Pass/1480Reflection	1415R
1510Pass/1550Reflection	1515
1550Pass/1510Reflection	1515R
980Pass/1064Reflection	9810

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