

1550nm PM Bandpass Filter (≥8nm BW)

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Center Wavelength		nm	1550	
Min. Pass Band Width @ 0.5dB		nm	8.0, 11, 13, 16, 22, 27, 50, 75, 100	
Insertion Loss over Pass Band Wavelength		dB	≤1.0	≤1.2
Stop Wavelength (ASE)	8nm Bandwidth	nm	1520~1542 & 1558~1610	
	11nm Bandwidth	nm	1520~1541 & 1559~1610	
	13nm Bandwidth	nm	1520~1540 & 1560~1610	
	16nm Bandwidth	nm	1500~1537 & 1563~1610	
	22nm Bandwidth	nm	1500~1533 & 1567~1610	
	27nm Bandwidth	nm	1500~1528 & 1572~1610	
	50nm Bandwidth	nm	1500~1520 & 1580~1610	
	75nm Bandwidth	nm	1450~1500 & 1600~1650	
100nm Bandwidth	nm	1440~1490 & 1610~1660		
Stop Wavelength (ASE)	Standard	dB	≥25	
Isolation	High Isolation	dB	≥45	
ASE Direction		-	F: Forward, B: Backward, T: Two-way	
Configuration		-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type	Input&Output	-	PM1550 Panda Fiber or 10/125um PMDC Fiber NA=0.08 (O) 10/130um PMDC Fiber NA=0.15 (O2) or 12/130um PMDC Fiber (T) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)	
	ASE Guide Out (Y/X Type)	-	Same Fiber, Corr. SM Fiber or MM Fiber	
Fiber Tensile Load		N	5	
Max. Average Optical Power (ASE+Signal)		mW	300	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x ^L 35	
	Metal Box	mm	^L 120x ^W 12x ^H 10	

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. High ER type can only work in slow axis.

4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

5. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

Bandwidth	Type	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
80-8nm	R=High ER	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
110-11nm	Blank for	T=Two-way	Isolation	S=Corr. SM Fiber	S=Corr. SM Fiber	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
220-22nm	Standard	Blank for Forward	Blank for	N=None	A=105/125um Fiber		T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000-100nm			Standard	Blank for D Type	Blank for None or D Type		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector

