

## 1550nm High Power Multimode Bandpass Filter ( $\leq 7\text{nm BW}$ )

### 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	Value	
Center Wavelength	nm	1550	
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0	
Insertion Loss over Pass Band Wavelength	dB	$\leq 1.2$	
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1549.4 & 1550.6~1610
	0.3nm Bandwidth	nm	1500~1549 & 1551~1610
	0.7nm Bandwidth	nm	1500~1548.5 & 1551.5~1610
	1nm Bandwidth	nm	1500~1548 & 1552~1610
	2nm Bandwidth	nm	1500~1547 & 1553~1610
	3nm Bandwidth	nm	1500~1546 & 1554~1610
	5nm Bandwidth	nm	1500~1545 & 1555~1610
7nm Bandwidth	nm	1500~1543 & 1557~1610	
Stop Wavelength (ASE)	Standard	dB	$\geq 25$
Isolation	High Isolation	dB	$\geq 45$
ASE Direction		-	F: Forward, B: Backward, T: Two-way
Configuration		-	D: 2-port, Y: 3-port, X: 4-port
Optical Return Loss		dB	$\geq 30$
Fiber Type	Input&Output	-	50/125um (OM2) or 62.5/125um (OM1) MM Fiber 50/125um OM3 MM Fiber (3) or OM4 MM Fiber(4) 105/125um MM Fiber, NA=0.12(D), 0.15(B), 0.22(A)
	ASE Guide Out (Y/X Type)	-	Same Fiber
Fiber Tensile Load	N		5
Max. Optical Power (CW, ASE+Signal)	W		1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100
Max. ASE Optical Power (CW)	W		0.3, 0.5, 1, 2, 3, 4, 5, 10
Operating Temperature	$^{\circ}\text{C}$		0~70
Storage Temperature	$^{\circ}\text{C}$		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	$\varnothing 5.5 \times L35$ ( $\leq 5\text{W}$ ); $\varnothing 6.0 \times L50$ (5~10W)
	Metal Box	mm	H: $90 \times W12 \times H10$ ( $> 10\text{W}$ ); M: $120 \times W12 \times H10$ ( $\leq 10\text{W}$ )

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 10dB lower.
  - Specifications are tested at low order modes.
  - Suggest to use Y/X type or H Box if blocked optical power is  $\geq 1\text{W}$ .
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - Devices for higher optical power or with other type fiber or consigned fiber are also available.
  - Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	1= 1W	1= 1W	M=Metal Box	5= 50/125um MM Fiber	B= Bare fiber	05=0.5m	N=Without Connector
07=0.7nm	T=Two-way	Isolation	N=None	Blank for None or D Type	5= 5W	5= 5W	H=H Box	6= 62.5/125um MM Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
20=2nm	Blank for Forward	Blank for	Blank for D Type		10=10W	10=10W	Blank for SST	3= OM3 MM Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
50=5nm		Standard			20=20W	Blank for 300mW		A= 105/125um, NA=0.22 B=105/125um, NA=0.15	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

