

## 1310/1550-1590nm High Power WDM Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



### SPECIFICATIONS

Parameters	Unit	Value	
Pass Channel Wavelength Range $\lambda_1$	nm	1530-1580, 1590+/-20	
Reflective Channel Wavelength Range $\lambda_2$	nm	1270-1350	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.0
	Reflective Channel@ $\lambda_2$	dB	≤0.8
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ $\lambda_2$	dB	≥25
	Reflective Channel@ $\lambda_1$	dB	≥12
Optical Return Loss	dB	≥45	
Directivity	dB	≥50	
Polarization Dependent Loss	dB	≤0.1	
Polarization Mode Dispersion	ps	≤0.1	
Fiber Type	-	SMF-28 Fiber, 10/130um DC Fiber (O), 12/130um DC Fiber (T), 20/130um DC Fiber (Q) 25/250um DC Fiber (R), 25/300um DC Fiber (G)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)

- 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.
  3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  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.

### ORDERING INFORMATION (PN)

FFWM-	NN	-	(C)	-	HP NN	-	(C)	(C)	C	NN	-	CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type				
13= 1310nm	15= 1550nm	X=X Type	1=1W	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector				
15= 1550nm	59= 1590nm	Blank for Y Type	2=2W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector				
59=1590nm	13= 1310nm		10=10W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector				
			20=20W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector				