

## 915/1310/1550/1590nm 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	1310+/-20, 1530-1580, 1590+/-20	
Reflective Channel Wavelength Range $\lambda_2$	nm	915+/-15	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.2
	Reflective Channel@ $\lambda_2$	dB	≤1.0
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ $\lambda_2$	dB	≥30
	Reflective Channel@ $\lambda_1$	dB	≥15
Optical Return Loss		dB	≥45
Directivity		dB	≥50
Polarization Dependent Loss		dB	≤0.2
Fiber Type	Signal Port	-	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)
	Common & Pump Port	-	Same Fiber, HI780 Fiber or HI1060 Fiber
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 0.7dB 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	NN	- C	(C)	(C)	-HP NN	- (C)	(C)	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Common Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
91= 915nm	15= 1550nm	Y=Same Fiber	X=Same Fiber	Y=Same Fiber	1=1W	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15= 1550nm	59= 1590nm	S=HI780 Fiber	S=HI780 Fiber	H=HI1060 Fiber	5=5W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
59= 1590nm	13=1310nm	H=HI1060 Fiber	H=HI1060 Fiber	Blank for HI780 Fiber	10=10W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
13=1310nm	91= 915nm		Blank for Y Type		20=20W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector