

## 980/1310~1590nm WDM Filter for Pulse Power



### FEATURES

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

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro 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	965-1000	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	$\leq 1.0$
	Reflective Channel@ $\lambda_2$	dB	$\leq 0.8$
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ $\lambda_2$	dB	$\geq 30$
	Reflective Channel@ $\lambda_1$	dB	$\geq 15$
Optical Return Loss	dB	$\geq 45$	
Directivity	dB	$\geq 50$	
Polarization Dependent Loss	dB	$\leq 0.1$	
Polarization Mode Dispersion	ps	$\leq 0.1$	
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 or HI1060 Fiber
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35 ( $\leq 5W$ ); ( $\varnothing$ )6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ( $\leq 10W$ )

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB 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) - H NN	P NN - (C)	(C)	C	NN -CC/CCC				
Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Common Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
98-980nm	15-1550nm	Y=Same Fiber	X=Same Fiber	Y=Same Fiber	03-300mW	01-100W	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05-0.5m	N=Without Connector
15-1550nm	59-1590nm	H=HI1060 Fiber	H=HI1060 Fiber	Blank for HI1060 Fiber	1-1W	1-1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector
59-1590nm	13-1310nm			Blank for Y Type	10-10W	10-10kW	or >10W	R=25/250 DC Fiber	2=2mm Cable	15-1.5m	LC/PC=LC/PC Connector
13-1310nm	98-980nm				20-20W	20-20kW		Blank for SMF-28 Fiber	3=3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector

