

## 790~850/1310~1590nm 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	780+/-10, 793+/-10, 810+/-10, 830+/-10, 850+/-10, 1310+/-20, 1550+/-20, 1590+/-20	
Reflective Channel Wavelength Range $\lambda_2$	nm		
Insertion Loss	Pass Channel@ $\lambda_1$	dB	$\leq 1.8$
	Reflective Channel@ $\lambda_2$	dB	$\leq 1.8$
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ $\lambda_2$	dB	$\geq 25$
	Reflective Channel@ $\lambda_1$	dB	$\geq 12$
Optical Return Loss	dB	$\geq 45$	
Directivity	dB	$\geq 50$	
Polarization Dependent Loss	dB	$\leq 0.2$	
Fiber Type	Signal	-	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		Same Fiber or HI780 Fiber
Fiber Tensile Load	N		5
Maximum Optical Power (CW)	W		1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C		0~50
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 0.7dB 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.
  5. 780~850nm light may transmit as low order modes in common port signal fiber.

### 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	Comm. Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
79~793nm	15~1550nm	S= 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
83~830nm	59~1590nm	Blank for HI780 Fiber		H=HI780 Fiber	5~5W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
13~1310nm	78~780nm	Blank for Y Type			10~10W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
15~1550nm	85~850nm				20~20W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector