

## 790~850/2000nm 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	1900±10, 1950±20, 2000±30, 2050±20, 2070±10	
Reflective Channel Wavelength Range $\lambda_2$	nm	780±10, 793±10, 808±10, 830±10, 850±10	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.6
	Reflective Channel@ $\lambda_2$	dB	≤1.5
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	≤0.2
Fiber Type	Common & Signal	-	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R)
	Pump		Same Fiber, 780HP Fiber or HI780 Fiber
Fiber Tensile Load	N		5
Maximum Optical Power (CW)	W		1, 2, 3, 5, 10
Operating Temperature	°C		0~50
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~8W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W)

- 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 will transmit as low order modes in common port signal fiber.

### ORDERING INFORMATION (PN)

FFWM-	NN	NN	- (C)	(C)	-HP NN	- (C)	(C)	C	NN	- CC/CCC
Ref Wavelength	Pass Wavelength	Pump. Fiber	Ref. Fiber2	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
79-793nm	90-1900nm	Y= Same Fiber	X= Same Fiber	1-1W	M= Metal Box	V= SM1950 Fiber	B= Bare Fiber	05-0.5m	N= Without Connector	
83-830nm	25-2050nm	7= 780HP Fiber	7= 780HP Fiber	2-2W	Blank for SST	O=10/130 DC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector	
19-1950nm	78-780nm	Blank for HI780 Fiber	H=HI780 Fiber	5-5W	or >8W	R=25/250 DC Fiber	2=2mm Cable	15-1.5m	LC/PC=LC/PC Connector	
20-2000nm	85-850nm		Blank for Y Type	10-10W		Blank for SMF-28 Fiber	3=3mm Cable	20-2.0m	SC/UFC=SC/UFC Connector	