

## 790~850/1310~1590nm High Power WDM Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



### SPECIFICATIONS

Parameters		Unit	Standard	High Isolation
Pass Channel Wavelength Range $\lambda_1$		nm	750±10, 780±10, 793±10, 810±10, 830±10, 850±10,	
Reflective Channel Wavelength Range $\lambda_2$		nm	1310±20, 1550±20, 1590±20, 1625±20, 1650±10	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.8	≤2.0
	Reflective Channel@ $\lambda_2$	dB	≤1.8	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ $\lambda_2$	dB	≥25	≥45
	Reflective Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss		dB	≥45	
Directivity		dB	≥50	
Polarization Dependent Loss		dB	≤0.2	
Fiber Type	Signal	-	780HP Fiber (7), HI780 Fiber (H) or SMF-28 Fiber	
		-	10/130um DC Fiber (O), 12/130um DC Fiber (T)	
		-	20/130um DC Fiber (Q), 25/300um DC Fiber (G)	
Common & Pump		-	Same Fiber, 780-HP Fiber (7) or HI780 Fiber	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)	
	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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.

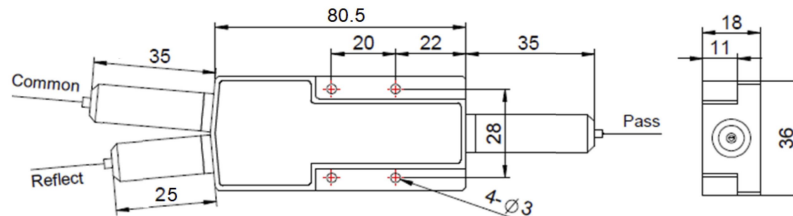
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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.

5. 780~850nm light may transmit as low order modes in common port signal fiber.

6. Package size may be different for different optical power, fiber type and configurations.

### PACKAGE DIMENSION (≥10W)



### ORDERING INFORMATION (PN)

**FFWM-NN NN - C (C) (C) (C) (C)-HPNN -(NN) -(C) (C) C NN -CC/CCC**

Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Comm. Fiber	Mode	Isolation	Optical Power	Average Power (Ref)	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
79~793nm	15~1550nm	S= Same Fiber	X= Same Fiber	Y= Same Fiber	M= Mux	I= High Iso	1~1W	03= 300mW	M= Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
83~830nm	59~1590nm	H= HI780 Fiber	7= 780HP Fiber	8= HI780 Fiber	D= Demux	Blank for	5~5W	1= 1W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
13~1310nm	78~780nm	7= 780HP Fiber	H= HI780 Fiber	Blank for 780HP Fiber	Blank for Both	Standard	10~10W	5~5W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
15~1550nm	85~850nm	Blank for Y Type					20~20W	Blank for Same to Pass		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/APC =SC/APC Connector

