780~850/1310~1650nm WDM Filter for Pulse Power

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 λ1		nm	750±10, 780±10, 793±10, 810±10, 830±10, 850±10,	
Reflective Channel Wavelength Range λ2		nm	1310±20, 1550±20, 1590±20, 1625±20, 1650±10	
Insertion Loss	Pass Channel@λ1	dB	≤1.8	≤2.0
	Reflective Channel@λ2	dB	≤1.8	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@λ2	dB	≥25	≥45
	Reflective Channel@λ1	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	
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)	
	Metal Box	mm	L120xW12xH10 (≤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.

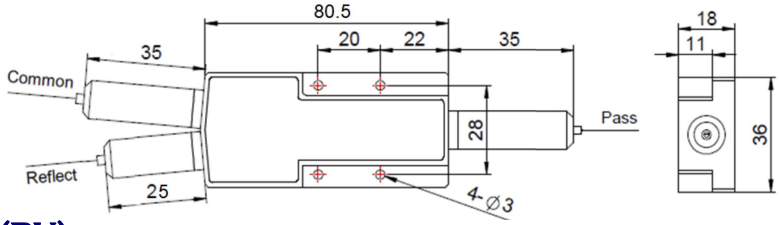
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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 SMF-28 Fiber or LMA 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)-H NN P NN -(NN) -(C) (C) C NN -CC/CCC

Ref WL	Pass WL	Pump Fiber	Pump Fiber2	Comm. Fiber	Mode	Isolation	Average Power	Peak 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	03=300mW	01=100W	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	1= 1W	1= 1kW	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	*Blank* for Both	Standard	10=10W	10=10kW	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	Fiber			20=20W	20=20kW	*Blank* for Sameto Pass		*Blank* for SMF-28 Fiber	3=3mm Cable	20=2.0m	LC/UPC=SC/UPC Connector

RoHS Compliant