

780~850/2000nm WDM Filter for Pulse Power

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 λ_1	nm	1900 \pm 10, 1950 \pm 20, 2000 \pm 30, 2050 \pm 20, 2070 \pm 10	
Reflective Channel Wavelength Range λ_2	nm	780 \pm 10, 793 \pm 10, 808 \pm 10, 830 \pm 10, 850 \pm 10	
Insertion Loss	Pass Channel@ λ_1	dB	\leq 1.6
	Reflective Channel@ λ_2	dB	\leq 1.5
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ λ_2	dB	\geq 25
	Reflective Channel@ λ_1	dB	\geq 12
Optical Return Loss		dB	\geq 45
Directivity		dB	\geq 50
Polarization Dependent Loss		dB	\leq 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
Max. Average Optical Power	W		0.3, 0.5, 1, 2, 3, 5, 10
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	(\varnothing)5.5x35 (\leq 5W); (\varnothing)6.0x48 (5~8W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (\leq 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)	-H NN	P NN	- (C)	(C)	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump. Fiber	Ref. Fiber2	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
79~793nm	90~1900nm	Y= Same Fiber	X= Same Fiber	03=300mW	01=100W	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	1= 1W	1= 1kW	Blank for SST	0=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	10=10kW	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	20=20kW		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

