

1310/1490/1550nm 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	1310±30 & 1490±10	
Reflective Channel Wavelength Range λ_2	nm	1530~1570	
Insertion Loss	Pass Channel@ λ_1	dB	≤1.0
	Reflective Channel@ λ_2	dB	≤0.8
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ λ_2	dB	≥25
	Reflective Channel@ λ_1	dB	≥12
Optical Return Loss	dB	≥45	
Directivity	dB	≥50	
Polarization Dependent Loss	dB	≤0.1	
Polarization Mode Dispersion	ps	≤0.1	
Fiber Type	-	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)	
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB 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.

ORDERING INFORMATION (PN)

FFWM-	NN	NN	- (C)	- H NN	P NN	- (C)	(C)	C	NN	- CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
13= 1310nm	34=1310+1490nm	X-X Type	03=300mW	01=100W	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
15= 1550nm	45=1490+1550nm	Blank for Y Type	1= 1W	1= 1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
34=1310+1490nm	15= 1550nm		10=10W	10=10kW	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
45=1490+1550nm	13= 1310nm		20=20W	20=20kW		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	