

1053/1020-1120nm 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	1053 \pm 1	
Reflective Channel Wavelength Range λ_2	nm	1020 \pm 10, 1030 \pm 10, 1040 \pm 5, 1064 \pm 5 1070 \pm 10, 1080 \pm 10, 1092 \pm 5, 1120 \pm 5	
Insertion Loss	Pass Channel@ λ_1	dB	\leq 1.0
	Reflective Channel@ λ_2	dB	\leq 0.8
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	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
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	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 (\leq 5W); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (\leq 10W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.5dB 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		
03= 1030nm	05= 1053nm	X=X Type	03=300mW	01=100W	M= Metal Box	E=10/125 SC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector		
06=1064nm		Blank for Y Type	1= 1W	1= 1kW	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
09= 1092nm			10=10W	10=10kW	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
12=1120nm			20=20W	20=20kW		Blank for HI1060 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		