

## 1020~1120/1310~1590nm WDM Filter

### 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 $\lambda_1$	nm	1310+/-20, 1530-1580, 1590+/-20	
Reflective Channel Wavelength Range $\lambda_2$	nm	1020+/-10, 1030+/-10, 1040+/-10, 1053+/-10, 1064+/-10, 1080+/-10, 1092+/-5, 1120+/-5	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	$\leq 1.0$
	Reflective Channel@ $\lambda_2$	dB	$\leq 0.8$
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ $\lambda_2$	dB	$\geq 25$
	Reflective Channel@ $\lambda_1$	dB	$\geq 12$
Optical Return Loss		dB	$\geq 45$
Directivity		dB	$\geq 50$
Polarization Dependent Loss		dB	$\leq 0.15$
Fiber Type	Signal Port	-	SMF-28 Fiber, 10/130um DC Fiber (O), 20/130um DC Fiber (Q), 25/250um DC Fiber (R)
	Common & 1um Port	-	Same Fiber or HI1060 Fiber
Fiber Tensile Load	N		5
Maximum Optical Power (CW)	mW		300
Operating Temperature	°C		0~50
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- 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)	(C)	(C)	- (C)	(C)	C	NN	-CC/CCC	
Ref Wavelength	Pass Wavelength	1um Fiber	Ref. Fiber2	Common Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
06=1064nm	15= 1550nm	S=Same Fiber	X=Same Fiber	Y=Same Fiber	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
03=1030nm	59= 1590nm	Blank for HI1060 Fiber		H=HI1060 Fiber	Blank for HI1060 Fiber	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
05=1053nm	13=1310nm	Blank for Y type					R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm						Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	