

## 980/1020-1150nm High Power WDM Filter

### 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 $\lambda_1$		nm	980±10, 1020±5, 1030±10, 1040±10, 1053±10, 1064±10, 1070±10, 1080±10, 1092±5, 1120±5, 1150±5	
Reflective Channel Wavelength Range $\lambda_2$		nm		
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.0	
	Reflective Channel@ $\lambda_2$	dB	≤0.8	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ $\lambda_2$	dB	≥25	≥45
	Reflective Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss		dB	≥45	
Directivity		dB	≥50	
Polarization Dependent Loss		dB	≤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	
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)	
	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤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.

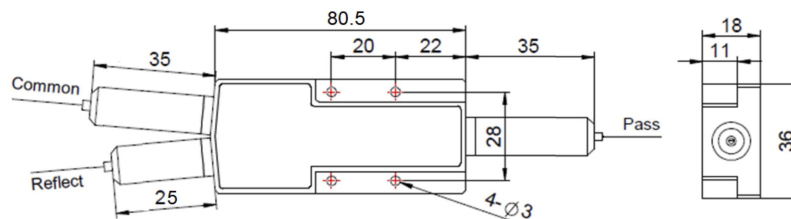
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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.

5. Package size may be different for different fiber type, optical power and configurations.

### PACKAGE DIMENSION (≥10W)



### ORDERING INFORMATION (PN)

FFWM- NN	NN	-(C)	(C)	(C)- HPNN	-(C)	(C)	C	NN	-CC/CCC	
Ref Wavelength	Pass Wavelength	Mode	Configuration	Isolation	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03- 1030nm	98-980nm	M- Mux	X-X Type	I- High Iso	1-1W	M- Metal Box	E-10/125 SC Fiber	B- Bare Fiber	05-0.5m	N- Without Connector
06- 1064nm	04- 1040nm	D- Demux	Blank for Y Type	Blank for	5-5W	Blank for SST	Q-20/130 DC Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
12-1120nm	07- 1070nm	Blank for Both		Standard	10-10W	or >10W	R-25/250 DC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector
98-980nm	09-1092nm				20-20W		Blank for HI1060 Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector