

## 780~850/1020~1120nm 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	780 $\pm$ 10, 793 $\pm$ 10, 810 $\pm$ 10, 830 $\pm$ 10, 850 $\pm$ 10, 1020 $\pm$ 5, 1030 $\pm$ 10, 1040 $\pm$ 10, 1053 $\pm$ 10, 1064 $\pm$ 10, 1070 $\pm$ 10, 1080 $\pm$ 10, 1092 $\pm$ 5, 1120 $\pm$ 5
Reflective Channel Wavelength Range $\lambda_2$		nm	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	$\leq$ 1.6
	Reflective Channel@ $\lambda_2$	dB	$\leq$ 1.5
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	$\leq$ 0.2
Fiber Type		-	HI780 Fiber, 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)		mW	300
Operating Temperature		$^{\circ}$ C	0~50
Storage Temperature		$^{\circ}$ 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 0.7dB 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)	(C)	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
79-793nm	03-1030nm	X=X Type	M=Metal Box	H=HI1060 Fiber	B= Bare Fiber	05-0.5m	N=Without Connector	
83-830nm	09-1092nm	Blank for Y Type	Blank for SST	E=10/125 SC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector	
06-1064nm	78-780nm			R=25/250 DC Fiber	2=2mm Cable	15-1.5m	LC/PC=LC/PC Connector	
12-1120nm	85-850nm			Blank for HI780 Fiber	3=3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector	