

## 780~850/2000nm WDM/Iso/Tap Hybrid Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks



### SPECIFICATIONS

Parameters		Unit	Single Stage	Dual Stage
Signal Wavelength Range $\lambda_1$		nm	2000 $\pm$ 20	
Pump Wavelength Range $\lambda_2$		nm	780 $\pm$ 10, 793 $\pm$ 10, 808 $\pm$ 10, 830 $\pm$ 10, 850 $\pm$ 10	
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.8	$\leq$ 2.2
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.3	
Signal Tap Ratio		%	1 $\pm$ 0.5, 2 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 40, 50	
Signal Isolation (Signal Channel@ $\lambda_1$ , 23°C)		dB	$\geq$ 16	$\geq$ 35
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	$\geq$ 25	
	Pump Channel@ $\lambda_1$	dB	$\geq$ 12	
Optical Return Loss		dB	$\geq$ 45	
PDL		dB	$\leq$ 0.2	
Pump Type		-	Forward Pump	
Fiber Type	Common & Signal	-	SMF-28 Fiber or SM1950 Fiber (V)	
	& Tap Port	-	10/130um DC Fiber (O) or 25/250um DC Fiber (R)	
	Pump Port	-	Same Fiber, 780HP Fiber or HI780 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	$(\varnothing)$ 5.5x40	
	Metal Box	mm	(L)120x(W)12x(H)10	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.7dB higher, RL is 5dB lower.
  - 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)

FHWT-NN	NN	-	C	NN	C	-(C)	(C)	C	NN	- CC/CCC
Pump WL	Signal WL	Stage	Tap Ratio	Pump Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
78~780nm	20~2000nm	S=Single Stage	01= 1%	Y=Same Fiber	M=Metal Box	V= SM1950 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
79~793nm		D=Dual Stage	05=5%	7=780HP Fiber	Blank for SST	O=10/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
81~808nm			10=10%	H=HI780 Fiber		R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector	
85~850nm			50=50%			Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	