

# 1500~1600/1900~1970nm 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	1900 $\pm$ 10, 1930 $\pm$ 20, 1950 $\pm$ 20, 1970 $\pm$ 20	
Pump Wavelength Range $\lambda_2$	nm	1530 $\pm$ 20, 1550 $\pm$ 20, 1570 $\pm$ 20, 1590 $\pm$ 20	
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.8
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.0
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	$\geq$ 10
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	-	SMF-28 Fiber or SM1950 Fiber (V)	
	-	10/130um DC Fiber (O) or 25/250um DC Fiber (R)	
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:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. 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	NN	-	CC/CCC
Pump WL	Signal WL	Stage	Tap Ratio	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
53-1530nm	90-1900nm	S=Single Stage	01=1%	M=Metal Box	V= SM1950 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector		
15-1550nm	93-1930nm	D=Dual Stage	05=5%	Blank for SST	O=10/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
57-1570nm	19-1950nm		10=10%		R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
59-1590nm	97-1970nm		50=50%		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		