

# 1500~1600/2030~2070nm 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	2030 $\pm$ 20, 2050 $\pm$ 20, 2070 $\pm$ 10	
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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - 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	23-2030nm	S=Single Stage	01=1%	M=Metal Box	V= SM1950 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector		
15-1550nm	25-2050nm	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	27-2070nm		10=10%		R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
59-1590nm			50=50%		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		