

# 1500~1600/2000nm WDM/Isolator Hybrid Filter

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

## APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks



## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Signal Wavelength Range $\lambda_1$	nm	2000 $\pm$ 20	
Pump Wavelength Range $\lambda_2$	nm	1530 $\pm$ 20, 1550 $\pm$ 20, 1570 $\pm$ 20, 1590 $\pm$ 20	
Insertion Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.6
	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.0
Signal Isolation (Signal Channel@ $\lambda_1$ )	dB	$\geq$ 16	$\geq$ 35
Signal/Pump Wavelength Isolation	dB	$\geq$ 25/12	
Optical Return Loss	dB	$\geq$ 45	
PDL	dB	$\leq$ 0.2	
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	
Max. Optical Power (CW)	mW	300	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35
Dimension	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.
  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)

FHWM-NN	NN	-	C	C	-(C)	(C)	C	NN	-CC/CCC
Pump WL	Signal WL	Stage	Pump Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
53=1530nm	20=2000nm	S=Single Stage	F=Forward	M=Metal Box	V=SM1950 Fiber	B=Bare fiber	05=0.5m	N=Without Connector	
15=1550nm		D=Dual Stage	B=Backward	Blank for SST	O=10/130 DC Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
57=1570nm					R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
59=1590nm					Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	