

## 780~850/2000nm High Power 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

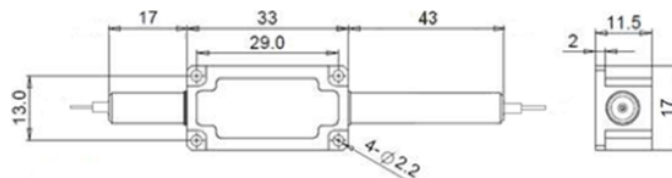


### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H 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			
Insertion Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.6	$\leq$ 2.0	
	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.3		
Signal Isolation (Signal Channel@ $\lambda_1$ )	dB	$\geq$ 16	$\geq$ 35	$\geq$ 25	
Signal/Pump Wavelength Isolation	dB	$\geq$ 25/12			
Optical Return Loss	dB	$\geq$ 45			
PDL	dB	$\leq$ 0.2			
Fiber Type	Common & Signal Port	-	SMF-28 Fiber or SM1950 Fiber (V)		
			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			
Max. Optical Power (CW)	W	0.3, 0.5, 1, 2		3, 5, 10	
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		
					See Drawing

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.7dB higher, RL is 5dB lower.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.

### DIMENSION DRAWING (H STAGE)



### ORDERING INFORMATION (PN)

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