

1480/1550/1590nm High Power WDM/Isolator Hybrid Filter

FEATURES

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

APPLICATIONS

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



SPECIFICATIONS

Parameters		Unit	Single Stage	Dual Stage	H Stage
Signal Wavelength Range λ_1		nm	1530-1570 (C-Band), 1570-1610 (L-Band)		
Pump Wavelength Range λ_2		nm	1450-1490		
Insertion Loss	Signal Channel@ λ_1	dB	≤ 1.1	≤ 1.3	≤ 1.4
	Pump Channel@ λ_2	dB	≤ 0.8		
Signal Isolation (Signal Channel@ λ_1)		dB	≥ 28	≥ 45	≥ 25
Signal/Pump Wavelength Isolation		dB	$\geq 25/12$		
Optical Return Loss		dB	≥ 45		
PDL		dB	≤ 0.1	≤ 0.2	
PMD		ps	≤ 0.25	≤ 0.1	
Fiber Type	Common & Signal	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)		
	Pump Port	-	Same Fiber or SMF-28 Fiber		
Fiber Tensile Load		N	5		
Max. Optical Power (CW)		W	1, 2, 3, 5, 10		15, 20
Operating Temperature		$^{\circ}\text{C}$	0~70		
Storage Temperature		$^{\circ}\text{C}$	-40~85		
Package	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 35$ ($\leq 5\text{W}$); $(\varnothing)6.0 \times 48$ (5~10W)		See Drawing
Dimension	Metal Box	mm	(L)120x(W)12x(H)10		

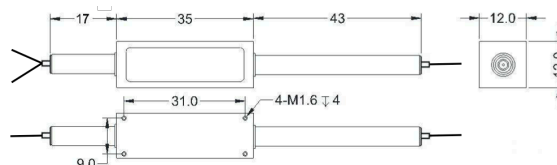
Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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)

Signal	Stage	Pump Type	Pump Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
FHWM-14(C)C	C	(C)	-HP NN	-(C)	(C)	C	NN	-CC/CCC	
Wavelength	S=Single Stage	F=Forward	S=SMF-28 Fiber	1=1W	M=Metal Box	O=10/130 DC Fiber	B=Bare fiber	05=0.5m	N=Without Connector
L=L Band	D=Dual Stage	B=Backward	Blank for Same Fiber	5=5W	Blank for SST	T=12/130 DC Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
Blank for C Band	H=H Stage			10=10W	or >10W	G=25/300 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
				20=20W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

