

1480/1550/1590nm 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
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
	Pump Channel@ λ_2	dB	≤ 0.8	
Signal Isolation (Signal Channel@ λ_1)		dB	≥ 28	≥ 45
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)		mW	300	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 35$	
Dimension	Metal Box	mm	$(L)120 \times (W)12 \times (H)10$	

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)

Signal	Stage	Pump Type	Pump Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
FHWM-14(C)	C	C	(C)	-(C)	(C)	C	NN	-CC/GCC
<i>Wavelength</i>	S=Single Stage	F=Forward	S=SMF-28 Fiber	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	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				G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

