

C/L Band Red/Blue Split High Power WDM Filter

FEATURES

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

APPLICATIONS

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



SPECIFICATIONS

Parameters		Unit	C Band (1536/1554nm)	L Band (1577/1596nm)
Pass Channel Wavelength Range λ_1		nm	1547-1561 (CR)	1589-1603 (LR)
Reflective Channel Wavelength Range λ_2		nm	1530-1543 (CB)	1570-1584 (LB)
Insertion Loss	Pass Channel@ λ_1	dB	≤1.0	
	Reflective Channel@ λ_2	dB	≤0.8	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ λ_2	dB	≥25	
	Reflective Channel@ λ_1	dB	≥12	
Optical Return Loss		dB	≥45	
Directivity		dB	≥50	
Polarization Dependent Loss		dB	≤0.1	
Polarization Mode Dispersion		ps	≤0.1	
Fiber Type		-	SMF-28 Fiber, 10/130um DC Fiber (O), 12/130um DC Fiber (T), 20/130um DC Fiber (Q) 25/250um DC Fiber (R), 25/300um DC Fiber (G)	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)	

- 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.

ORDERING INFORMATION (PN)

FFWM-	CC	CC	- (C)	- HP NN	- (C)	(C)	C	NN	- CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
CR= 1547-1561nm	CB=1530-1543nm	X=X Type	1-1W	M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
CB=1530-1543nm	CR= 1547-1561nm	Blank for Y Type	2-2W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
LB= 1570-1584nm	LR=1589-1603nm		5-5W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
LR=1589-1603nm	LB= 1570-1584nm		10-10W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	