

780~850/1310~1590nm WDM Filter for Pulse Power

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	Value	
Pass Channel Wavelength Range λ_1	nm	780+/-10, 793+/-10, 810+/-10, 830+/-10, 850+/-10,	
Reflective Channel Wavelength Range λ_2	nm	1310+/-20, 1550+/-20, 1590+/-20	
Insertion Loss	Pass Channel@ λ_1	dB	≤1.8
	Reflective Channel@ λ_2	dB	≤1.8
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	≤0.2	
Fiber Type	Signal	-	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)
	Common & Pump		Same Fiber or HI780 Fiber
Fiber Tensile Load	N		5
Max. Average Optical Power	W		0.3, 0.5, 1, 2, 3, 5, 10, 15, 20
Max. Peak Power for pulse	kW		0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C		0~50
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 (≤5W); (\varnothing)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 0.7dB 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.
 5. 780~850nm light may transmit as low order modes in common port signal fiber.

ORDERING INFORMATION (PN)

Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Comm. Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
79-793nm	15-1550nm	S= Same Fiber	X= Same Fiber	Y= Same Fiber	03-300mW	01-100W	M= Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
83-830nm	59-1590nm	Blank for HI780		H=HI780 Fiber	Blank for HI780	1= 1W	1= 1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
13-1310nm	78-780nm	Fiber	Blank for Y Type	Fiber	10-10W	10-10kW	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
15-1550nm	85-850nm				20-20W	20-20kW		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	