

750~850/1020~1150nm High Power WDM 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

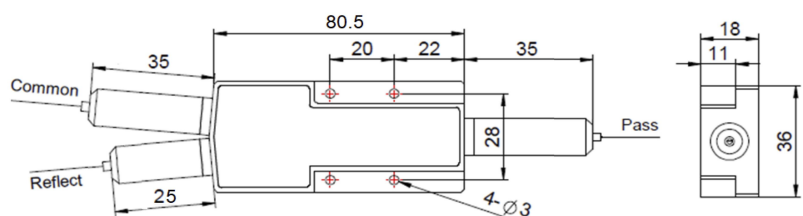


SPECIFICATIONS

Parameters		Unit	Standard	High Isolation
Pass Channel Wavelength Range λ_1		nm	750 \pm 10, 780 \pm 10, 793 \pm 10, 810 \pm 10, 830 \pm 10, 850 \pm 10,	
Reflective Channel Wavelength Range λ_2		nm	1020 \pm 10, 1030 \pm 10, 1040 \pm 10, 1053 \pm 10, 1064 \pm 10, 1070 \pm 10, 1080 \pm 10, 1092 \pm 10, 1120 \pm 10, 1150 \pm 10	
Insertion Loss	Pass Channel@ λ_1	dB	≤ 1.6	≤ 1.8
	Reflective Channel@ λ_2	dB	≤ 1.6	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ λ_2	dB	≥ 25	≥ 45
	Reflective Channel@ λ_1	dB	≥ 12	
Optical Return Loss		dB	≥ 45	
Directivity		dB	≥ 50	
Polarization Dependent Loss		dB	≤ 0.2	
Fiber Type	Signal Fiber (1 μ m)	-	HI780 Fiber, 780-HP Fiber(7) or HI1060 Fiber(H) 10/125 μ m SC Fiber (E), 15/130 μ m DC Fiber (W) 20/130 μ m DC Fiber (Q) or 25/250 μ m DC Fiber (R)	
	Common & Pump	-	Same Fiber, 780-HP Fiber(7) or HI780 Fiber	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature		$^{\circ}$ C	0~50	
Storage Temperature		$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L35$ ($\leq 5W$); $\phi 6.0 \times L50$ (5~10W)	
	Metal Box	mm	$L120 \times W12 \times H10$ ($\leq 10W$)	

- 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. 750~850nm light will transmit as low order modes in HI1060 Fiber or LMA fiber.

PACKAGE DIMENSION (>10W)



ORDERING INFORMATION (PN)

Ref Wavelength	Pass Wavelength	Isolation	Pump Fiber	Pump Fiber2	Comm. Fiber	Isolation	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
79-793nm	03-1030nm	I=High Isolation	S= Same Fiber	X= Same Fiber	Y= Same Fiber	I= High Iso	1=1W	M= Metal Box	7= 780-HP Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
83-830nm	09-1092nm	Blank for	7= 780-HP Fiber	7= 780-HP Fiber	7= 780-HP Fiber	Blank for	2=2W	Blank for SST	H=HI1060 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
06-1064nm	78=780nm	Standard	Blank for	H=HI780 Fiber	Blank for HI780 Fiber	Standard	5=5W	or >10W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12-1120nm	85=850nm		HI780 Fiber	Blank for Y Type			10=10W		Blank for HI780 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector