

## 980/1550/1590nm WDM/Iso/Tap PM Hybrid Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks



### SPECIFICATIONS

Parameters		Unit	Single Stage	Dual Stage
Signal Wavelength Range $\lambda_1$		nm	1530-1570 (C-Band), 1570-1610 (L-Band)	
Pump Wavelength Range $\lambda_2$		nm	960-990	
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq 1.3$	$\leq 1.4$
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq 0.8$	
Signal Tap Ratio		%	1 $\pm$ 0.5, 2 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 40, 50	
Signal Isolation (Signal Channel@ $\lambda_1$ , 23°C)		dB	$\geq 28$	$\geq 45$
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	$\geq 25$	
	Pump Channel@ $\lambda_1$	dB	$\geq 12$	
Optical Return Loss		dB	$\geq 45$	
Extinction Ratio		dB	$\geq 18$	
Pump Type	S Type	-	Forward Pump, Only Slow Axis Working	
	F Type	-	Forward Pump, Both Axis Working	
	B Type	-	Backward Pump, Only Slow Axis Working	
Fiber Type	Signal Port	-	PM1550 Panda Fiber, 10/125um PMDC Fiber (O),	
		-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)	
		-	25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
	Common Port	-	Same Fiber or PM980 Fiber	
	Pump Port	-	Same Fiber, PM980 Fiber or HI1060 Fiber	
Tap Port	-	Same Fiber or Corresponding SM Fiber		
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		mW	300	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 40$	
	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 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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 WL	Stage	Pump Type	Tap Ratio	Pump Fiber	Tap Fiber	Comm Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
L=L Band	S=Single Stage	S=S Type	01=1%	P=PM980 Fiber	P=Same Fiber	P=PM980 Fiber	M=Metal Box	2=PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
Blank for	D=Dual Stage	F= F Type	05=5%	S=HI1060 Fiber	S=Corr.	Blank for Same	Blank for SST	O=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
C Band		B=B Type	10=10%	Y=Same Fiber	SM Fiber	Fiber		T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			50=50%					R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

