

Polarization Maintaining Fiber Tap/Isolator/WDM Hybrid Device

Features	
High ER & High Isolation Low Insertion Loss High Stability and Reliability	
Application	
Fiber Amplifier、Fiber Laser Fiber optic Instrument	

Specifications:

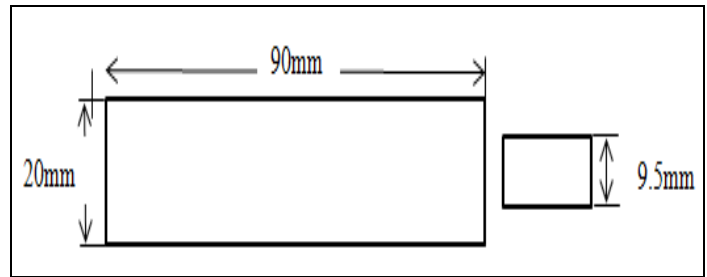
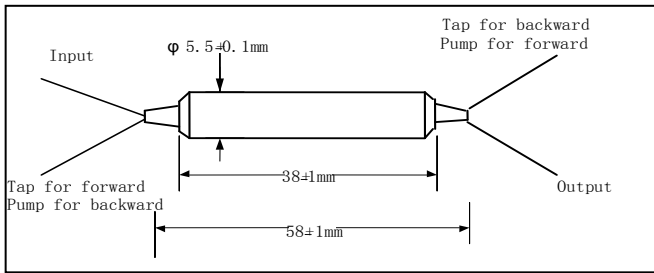
Parameter		59:1550/980		54:1550/1480	
Isolator stage		Single stage	Dual stage	Single stage	Dual stage
Signal Wavelength Range(mm)		1530-1565		1530-1565	
Signal Tap Ratio (%) (Input to Tap)		1±0.2, 2±0.4, 5±1, 10±2, 50, 90			
Typ.Signal Peak Isolation(Out put to Input) (dB)		40	55	40	55
Signal Isolation at 23 °C (Out put to Input) (dB)		≥28	≥46	≥28	≥46
Signal Insertion Loss(Input to Output)(dB)	Tap 1%	≤1.3	≤1.4	≤1.3	≤1.4
	Tap 2%	≤1.4	≤1.5	≤1.4	≤1.5
	Tap 5%	≤1.5	≤1.6	≤1.5	≤1.6
	Tap 10%	≤1.7	≤1.8	≤1.7	≤1.8
	Tap 15%	≤2.0	≤2.1	≤2.0	≤2.1
	Tap 30%	≤2.80	≤2.90	≤2.80	≤2.90
	Tap 40%	≤3.50	≤3.60	≤3.50	≤3.60
	Tap 50%	≤4.4	≤4.5	≤4.4	≤4.5
Pump Wavelength Range(nm)		960~990		1460~1490	
Pump Insertion Loss(Pump Channel) (dB)		≤0.6	≤0.6	≤0.5	≤0.5
Extinction Ratio (Input to Output) (dB)	Type F (Fast axis blocked)	≥22			
	TypeB (Both of axis working)	≥20			
Extinction Ratio (Pump Channel or Tap port) (dB)		18(only for Pump port or Tap port with PM Fiber)			
Return Loss (dB)		≥50			
Directivity (Pump to Tap)(dB)		≥50			
Fiber Type	Common /Signal Port	PM1550		PM1550	
	Tap Port	SMF-28e or PM1550		SMF-28e or PM1550	
	Pump Port	HI1060 or PM 980		SMF-28e or PM 1550	
Optical Power (mW)(CW)		≤300			
Operating Temperature(°C)		0 ~ +70			
Storage Temperature(°C)		-40~ + 85			
Package Dimension (mm)		φ5.5 × L38(P1) (only for bare fiber or 900um loose tube)			
		L90*W20*H9.5 (ABS) (P2) (only for 3mm or 2mm cable)			

*Above specifications are for devices without the connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis. And for F type, fast axis is blocked.

Package Dimensions



Ordering Information

PTIW	Signal & Pump Wavelength	Isolator stage	Pump Type	Coupling Ratio	Working axis	Fiber Type on Pump	Fiber Type on Tap	Pigtail Type	Pigtail Type Length	Connector
	59=1550nm Signal/980nm Pump 54=1550nm Signal/1480nm Pump	S=Single Stage D=Dual Stage	B=Backward Pump F=Forward Pump	1=1/99 2=2/98 3=3/97 4=4/96 5=5/95 A=10/90 B=20/80 C=30/70 D=40/60 E=50/50	F=Fast Axis Blocked B=Both Axis Working	1=SMF-28e 2=HI1060 3=PM Fiber	1=SMF-28e 2=HI1060 3=PM Fiber	1=250um bare fiber 2=900um loose tube 3=3mm loose tube 4=2mm loose tube	H=0.5m 8=0.8m 1=1.0m 5=1.5m 2=2.0m 3=3.0m 4=4.0m A=2.5m B=5.0m	0=None 1=FC/UPC 2=FC/APC 3=LC/UPC 4=LC/APC 5=SC/APC 6=SC/UPC