

## 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		69: 1064/980	
Isolator stage		Single stage	Dual stage	Single stage	Dual stage	Single stage	Dual stage
Signal Wavelength Range(mm)		1530-1565		1530-1565		1064±5	
Signal Tap Ratio (%) (Input to Tap)		1±0.2, 2±0.4, 5±1, 10±2, 20, 30, 40, 50,					
Typ. Signal Peak Isolation (Out put to Input) (dB)		40	55	40	55	40	52
Signal Isolation at 23 °C (Out put to Input) (dB)		≥28	≥46	≥28	≥46	≥30	≥42
Signal Insertion Loss (Input to Output) (dB)	Tap 1%	≤1.3	≤1.4	≤1.3	≤1.4	≤2.7	≤3.8
	Tap 2%	≤1.4	≤1.5	≤1.4	≤1.5	≤2.8	≤3.9
	Tap 5%	≤1.5	≤1.6	≤1.5	≤1.6	≤3.0	≤4.1
	Tap 10%	≤1.7	≤1.8	≤1.7	≤1.8	≤3.2	≤4.3
	Tap 15%	≤2.0	≤2.1	≤2.0	≤2.1	≤3.4	≤4.5
	Tap 30%	≤2.7	≤2.8	≤2.7	≤2.8	≤4.25	≤5.35
	Tap 40%	≤3.5	≤3.6	≤3.5	≤3.6	≤4.9	≤6.0
	Tap 50%	≤4.4	≤4.5	≤4.4	≤4.5	≤5.7	≤6.8
Pump Wavelength Range (nm)		960~990		1460~1490		960~990	
Pump Insertion Loss (Pump Channel) (dB)		≤0.6		≤0.5		≤0.6	
Extinction Ratio (Input to Output) (dB)	Type F (Fast axis blocked)	≥22					
	Type B (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		PM980	
	Tap Port	SMF-28e or PM1550		SMF-28e or PM1550		HI1060 or PM 980	
	Pump Port	HI1060 or PM 980		SMF-28e or PM 1550		HI1060 or PM 980	
Optical Power (mW) (CW)		≤300					
Operating Temperature (°C)		0 ~ +70				0 ~ +50	
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)					

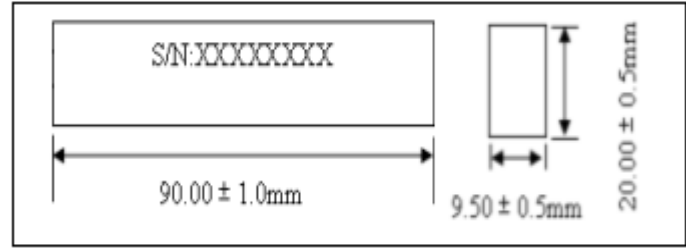
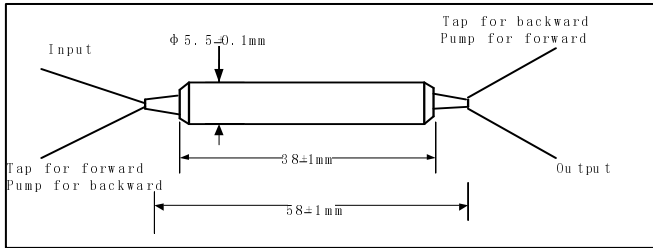
\*Above specifications are for devices without the connectors.

\*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.

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### 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	S=Single Stage	B=Backward Pump	1=1/99	F=Fast Axis	1=SMF-28e	1=SMF-28e	1=250um bare fiber	H=0.5m	0=None
	54=1550nm Signal/1480nm Pump	D=Dual Stage	F=Forward Pump	2=2/98	Blocked	2=HI1060	2=HI1060	2=900um loose tube	8=0.8m	1=FC/UPC
	69=1064nm Signal/980nm Pump			3=3/97	B=Both Axis Working	3=PM Fiber	3=PM Fiber	3=3mm loose tube	1=1.0m	2=FC/APC
				4=4/96				4=2mm loose tube	5=1.5m	3=SC/APC
				5=5/95				5=5.0m loose tube	2=2.0m	4=SC/UPC
				A=10/90				6=6.0m loose tube	3=3.0m	5=MU
				B=20/80				7=7.0m loose tube	4=4.0m	6=LC/UPC
				C=30/70				S=Specify	A=2.5m	7=LC/APC
				D=40/60					B=5.0m	S=Specify
				E=50/50					S=Specify	