Optics-Forest

PM Tap+ Isolator + WDM Hybrid Device (9815, 1415nm, PMTIWDM)

Product Description

The PM Hybrid device combines 3-function: Tap, isolator and WDM into one compact package, it can be built as customer request, tap ratio and pump direction.

Product Features

- Wide Operating Wavelength
- Low IL & PDL & High Isolation
- High Stability and Reliability

Product Applications

- PM Fiber Amplifier
- PM WDM System
- PM Fiber optic Instrument

Specifications

Parameters		Unit	980/1550		1480/1550	
Isolator stage			Single stage	Dual stage	Single stage	Dual stage
Signal Wavelength Range(mm)			1530-1565		1530-1565	
Pump Wavelength Range(nm)			960~990		1460~1490	
Signal Tap Ratio (%)			1±0.2, 2±0.4, 5±1, 10±2,50			
Typ.Signal Peak Isolation(dB)			40	55	40	55
Signal Isolation at 23 ℃(dB)			≥30	≥48	≥30	≥48
Pump Insertion Loss(dB)			≤0.6	≤0.6	≤0.5	≤0.5
Signal Insertion Loss(dB)	Tap 1%		≤1.1		≤1.2	
	Tap 2%		≤1.2		≤1.3	
	Tap 5%		≤1.3		≤1.4	
	Tap 10%		≤1.5		≤1.6	
	Tap 50%		≤4.2		≤4.3	
Extinction Ratio (dB)	Type 1 (Fast axis blocked)		≥22			
	Type 2 (Both of axis working)		≥20			
Return Loss (dB)			≥50			

Directivity (dB)		≥50	
Fiber Type	Common /Tap/Signal Port	PM1550	PM1550
	Pump Port	HI1060 or PM 980	SMF-28e or PM 1550
Optical Power (mW)		≤300	
Operating Temperature(℃)		0 ~ +70	
Storage Temperature(℃)		-40~ + 85	
Package Dimension (mm)		Φ5.5x35	

Remark

* Above specifications are for device without connector.

* For devices with connectors, please refer to patchcord spec, the "fiber length" is with connectors.

Ordering Information

PMTI WDM	Wavelength	Stage	Coupling Ratio	Working axis	Pigtail Type	Fiber Type	Length	Connector
	1550T/980R 1550T/1480R	S=Single Stage D=Dual Stage	1% 2% 5% 10%	1=Fast Axis Blocked 2=Both Axis Working	250=250um bare fiber 900=900um loose tube	1=SMF-28e 4=HI1060 5=PM Fiber	0.8=0.8m	NE=None FC=FC/UPC SC=SC/UPC FA=FC/APC SA=SC/APC LC=LC/UPC ST=ST/UPC XX=Other