

1800nm Polarization Maintaining Isolator (PMIS)

Features

Wide Operating Wavelength
High Isolation & Low Insertion Loss
High PER
Telcordia GR-1221 Compliant
Polarization Insensitive and Polarization Sensitive (Dependent)

Application

Fiber Amplifier
Fiber Laser
Surgical Equipment

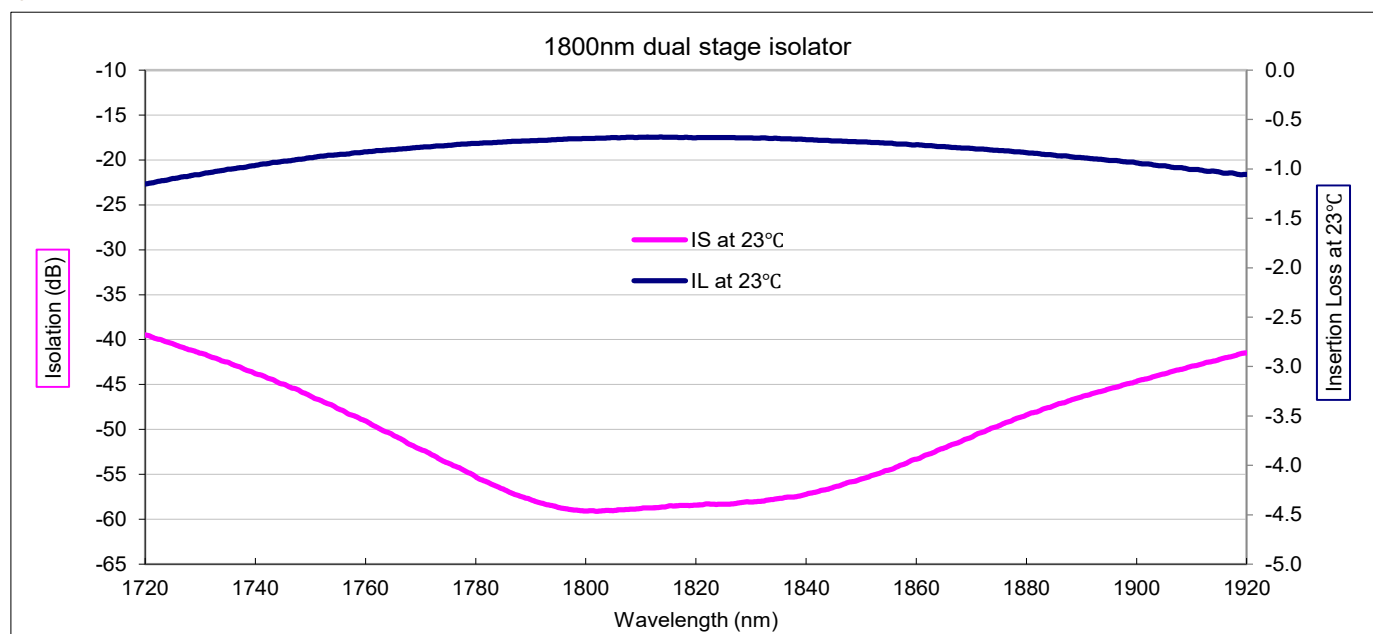
Specifications



Parameters		Unit	Single Stage	Dual Stage
Center Wavelength		nm	1800	
Peak isolation		dB	30	48
Min Isolation ($\lambda \pm 15\text{nm}$, 23°C all sop)		dB	23	38
Typ. IL ($\lambda \pm 20\text{nm}$, 23°C all sop) with PM1550		dB	0.60	0.70
Typ. IL ($\lambda \pm 20\text{nm}$, 23°C all sop) with PM1950		dB	0.80	1.00
Insertion Loss ($\lambda \pm 20\text{nm}$, -5 ~ +70 °C all sop) with PM1550 Fiber		dB	≤ 0.70	≤ 0.80
Insertion Loss ($\lambda \pm 20\text{nm}$, -5 ~ +70 °C all sop) with PM1950 Fiber		dB	≤ 0.90	≤ 1.10
Polarization Extinction (PER)	Both Axes Pass	dB	≥ 20	≥ 20
	Fast Axis Blocked	dB	≥ 23	
PMD		ps	≤ 0.20	≤ 0.05
Return Loss (Input / Output) (RL)		dB	$\geq 60/55$	$\geq 60/55$
Fiber Type			PM1550, PM1950, PM2000	
Max Power Handling CW		W	0.5, 5, 10, 20	
Operating Temperature		°C	-0 ~ +75	
Storage Temperature		°C	-40 ~ +85	

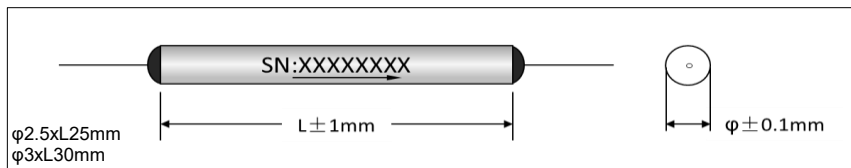
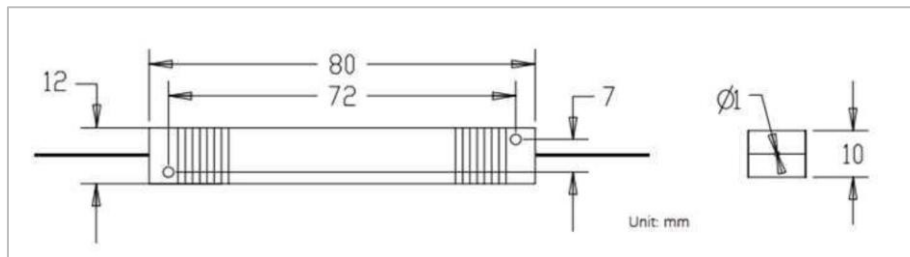
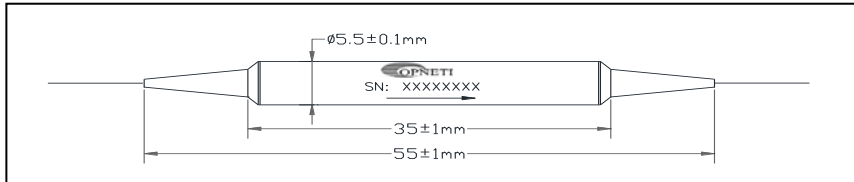
Above data test at room temperature without connectors. With connectors, IL+0.3dB, RL-5dB.

Typical Spectrum



Package Information

Fiber Length	1m, others on request		
Pigtail Type	250μm Bare Fiber	900μm Loose Tube	2mm/3mm Loose Cable
Dimensions(mm)	φ2.5x25, φ3x25, φ3x30, φ5.5x35,	φ5.5x35, 90x16x9	φ5.5x35(no boot), 90x16x9
Approx Weight (g)	35	50	65



Ordering Information

PMIS- ①-②②②②②-③-④④④④-⑤⑤⑤⑤-⑥-⑦⑦⑦

①	Type	S=Single Stage; D=Dual Stage;
②	Wavelength	1800;
③	Axis Alignment	F=Fast Axis Blocked; B=Both Axes Working;
④	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable;
⑤	Fiber Type	P15=PM1550; P19=PM1950; P20=PM2000;
⑥	Fiber Length	1=1m; XX=other;
⑦	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;