

1750nm Polarization Insensitive / Sensitive Isolator (IS)

Features

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

Application

Fiber Amplifier
Fiber Laser
Surgical Equipment

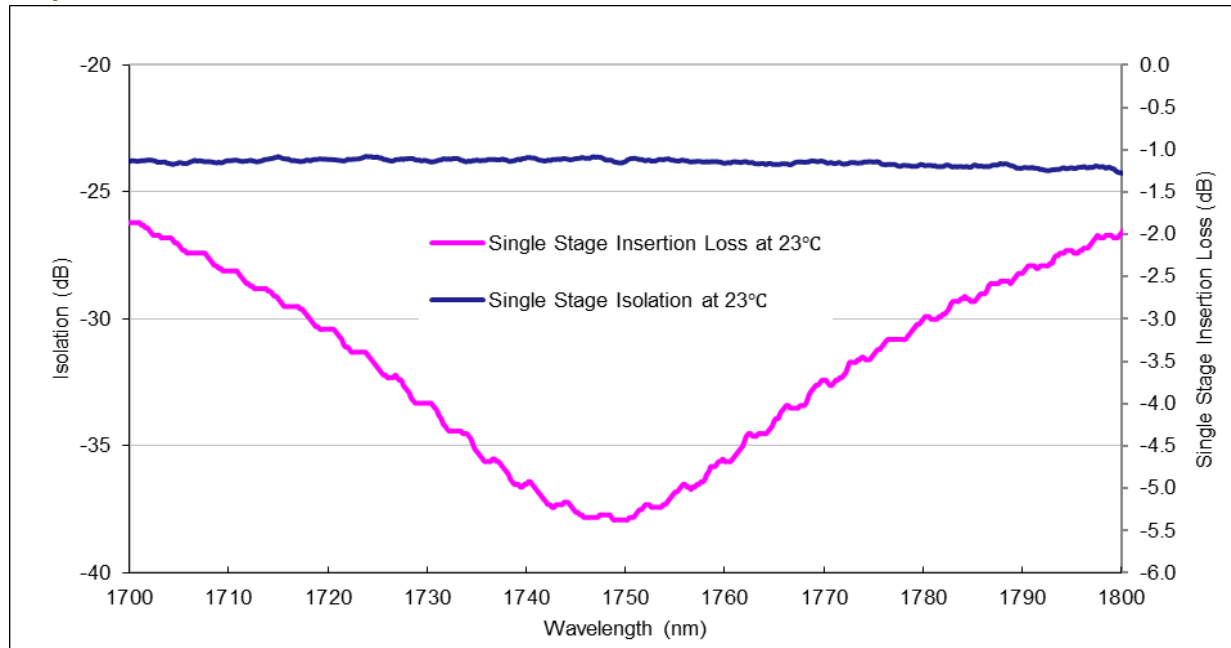
Specifications



Parameters		Unit	Single Stage	Dual Stage
Center Wavelength		nm	1750	
Peak isolation		dB	40	55
Min Isolation ($\lambda \pm 15\text{nm}$, 23°C all sop)		dB	25	44
Typ. IL ($\lambda \pm 20\text{nm}$, 23°C all sop)		dB	0.45	0.55
Insertion Loss ($\lambda \pm 20\text{nm}$, -5 ~ +70 °C all sop)		dB	≤ 0.60	≤ 0.70
Polarization Dependent Loss (PDL)	Polarization Insensitive	dB	≤ 0.05	≤ 0.10
	Polarization Sensitive	dB	≥ 20	
PMD		ps	≤ 0.2	≤ 0.05
Return Loss (Input / Output) (RL)		dB	$\geq 60/55$	$\geq 60/55$
Fiber Type			SMF-28e	
Max Power Handling CW		mW	500	
Operating Temperature		°C	-0 ~ +75	
Storage Temperature		°C	-40 ~ +85	

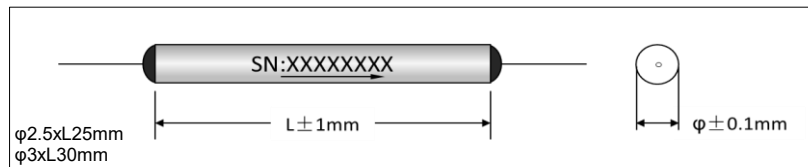
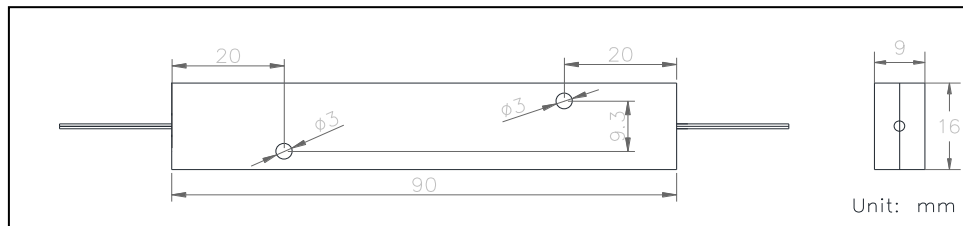
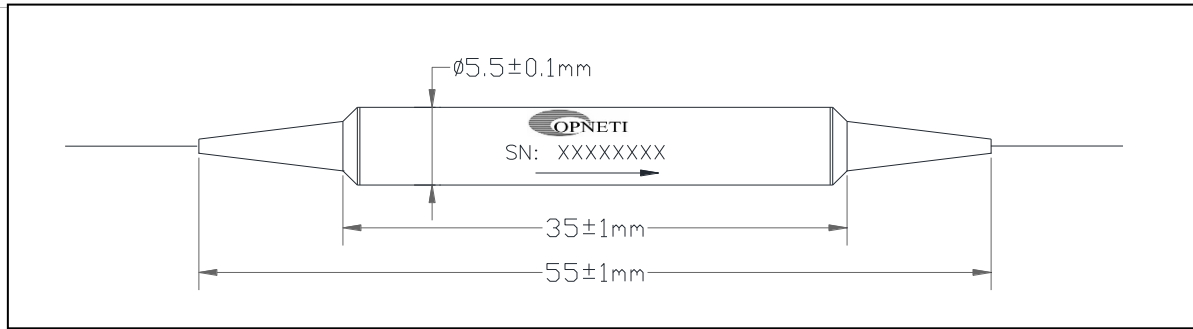
Above data test at room temperature without connectors. With connectors, IL+0.3dB, RL-5dB.

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

IS- ①-②②②②-③-④④④-⑤-⑥-⑦⑦

①	Type	S=Single Stage; D=Dual Stage;
②	Wavelength	1750;
③	Axis Alignment	1=Polarization Sensitive; 2=Polarization Insensitive;
④	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable;
⑤	Fiber Type	1=SMF-28e;
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;