4x4, 1550nm, C+L Band Polarization Insensitive Isolator (IS)

Features

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

Application

- Fiber Amplifier
- Transmitters & Fiber Laser
- Testing Equipment
- WDM & DWDM System

RoHS Reach

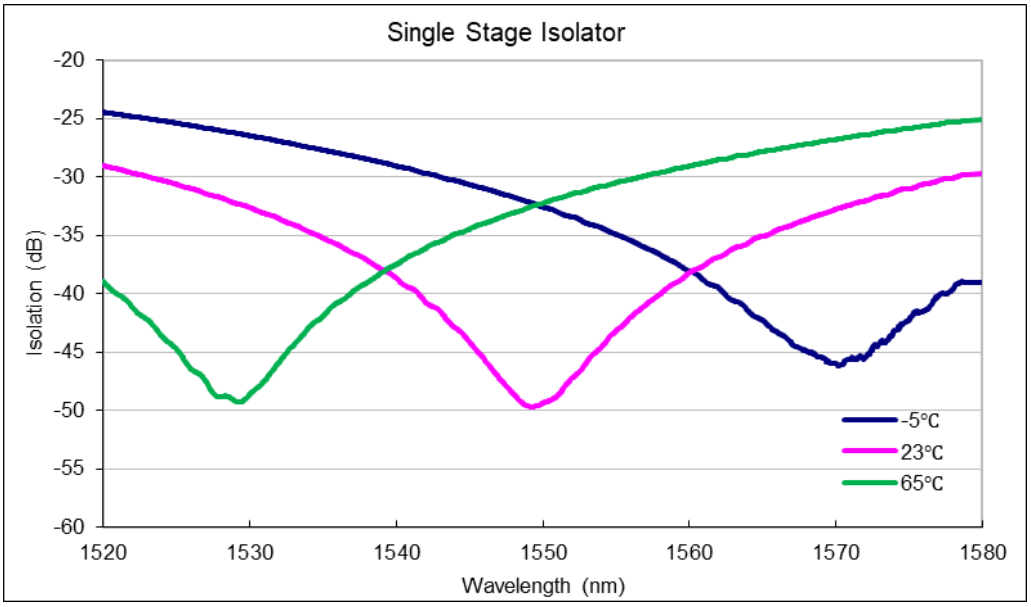
Specifications

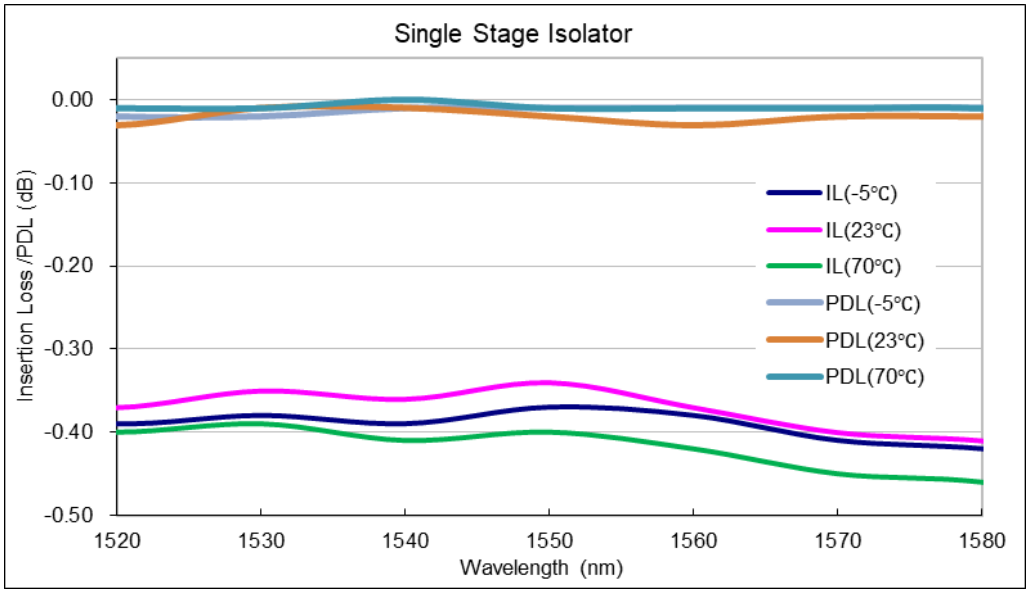
Parameters	Unit	Single Stage	Dual Stage
Operation Wavelength	nm	1550±15, 1528~1612	
Peak isolation	dB	40	50
Min Isolation (λop,23°C all sop)	dB	28	40
Typ. IL(λop,23°C all sop)	dB	0.45	0.70
Insertion Loss (λop,-5 ~ +70 °C all sop)	dB	≤0.70	≤0.90
Polarization Dependent Loss (PDL)	dB	≤0.10	≤0.15
PMD	ps	≤0.2	≤0.05
Return Loss (Input / Output) (RL)	dB	≥50/50	≥50/50
Directivity (DIR)*	dB	≥50	≥50
Fiber Type		SMF-28e	
Max Power Handling CW (for each Channel)	mW	250	
Operating Temperature	℃	-0 ~ +75	
Storage Temperature	℃	-40 ~ +85	

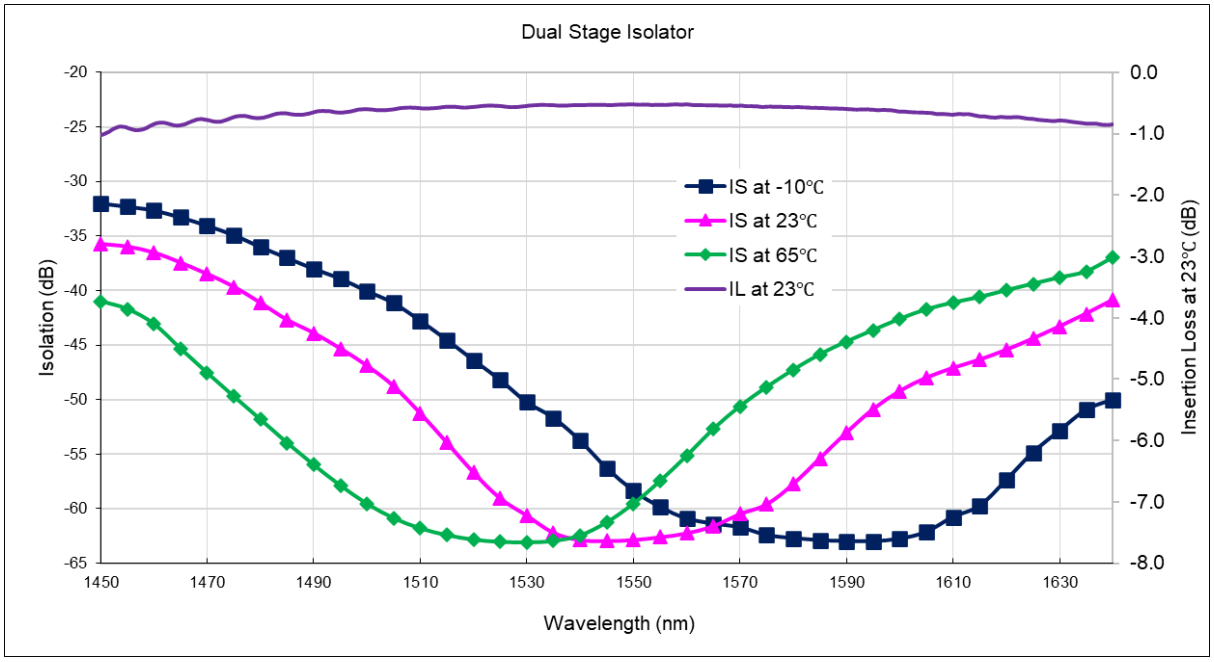
* Minimum Loss at Input1 to Output 2/3/4, Input2 to Output1/3/4, Input3 to Output1/2/4, Input4 to Output1/2/3.

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

Typical Spectrum

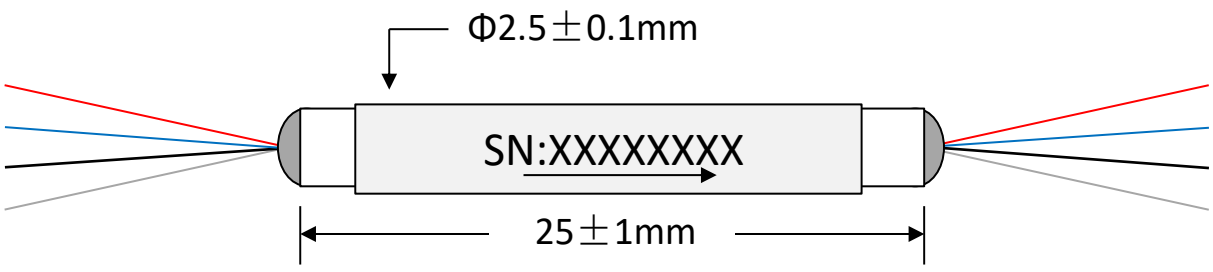






Package Information

Fiber Length	1m, others on request
Pigtail Type	250μm Bare Fiber
Dimensions(mm)	φ2.5x25
Approx Weight (g)	45



Fiber color configuration

Input	Output
Red	Red
Blue	Blue
Clear	Clear
Black	Black

Ordering Information

IS-4x4- ①-②②②②-③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧⑧⑧⑧

①	Type	S=Single Stage; D=Dual Stage;
②	Wavelength	1550=1550nm; CL=1528~1612;
③	Axis Alignment	2=Polarization Insensitive;
④	Pigtail Type	250=250μm Fiber;
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;
⑧	Package size	φ2.5x25;