1230nm High Power Isolator (HPIS / HPMIS)

Features

- Wide Operating Wavelength
- High Isolation & High PER
- Telcordia GR-1221 Compliant
- Available for Both Axes Pass or Fast Axis Block

Application

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

RoHS Reach

Specifications

Parameters		Unit	Single Stage	Dual Stage
Center Wavelength		nm	1230	
Peak isolation		dB	42	58
Min Isolation (λc±15nm,23℃)		dB	28	48
Typ. IL(λc±20nm,23℃)		dB	0.35	0.40
Insertion Loss (λc±20nm,-5 ~ +70 ℃)		dB	≤0.50	≤0.55
Polarization Dependent Loss (PDL) (for SMF)		dB	≤0.05	≤0.10
PER (for PMF)	Both Axes Pass	dB	≥20	
	Fast Axis Blocked	dB	≥23	
Return Loss (Input / Output) (RL)		dB	≥60/55	≥60/55
Fiber Type			HI1060, SMF-28e, PM980, PM1300	
Max Power Handling CW		W	1, 2	
Operating Temperature		℃	-0 ~ +75	
Storage Temperature		℃	-40 ~ +85	

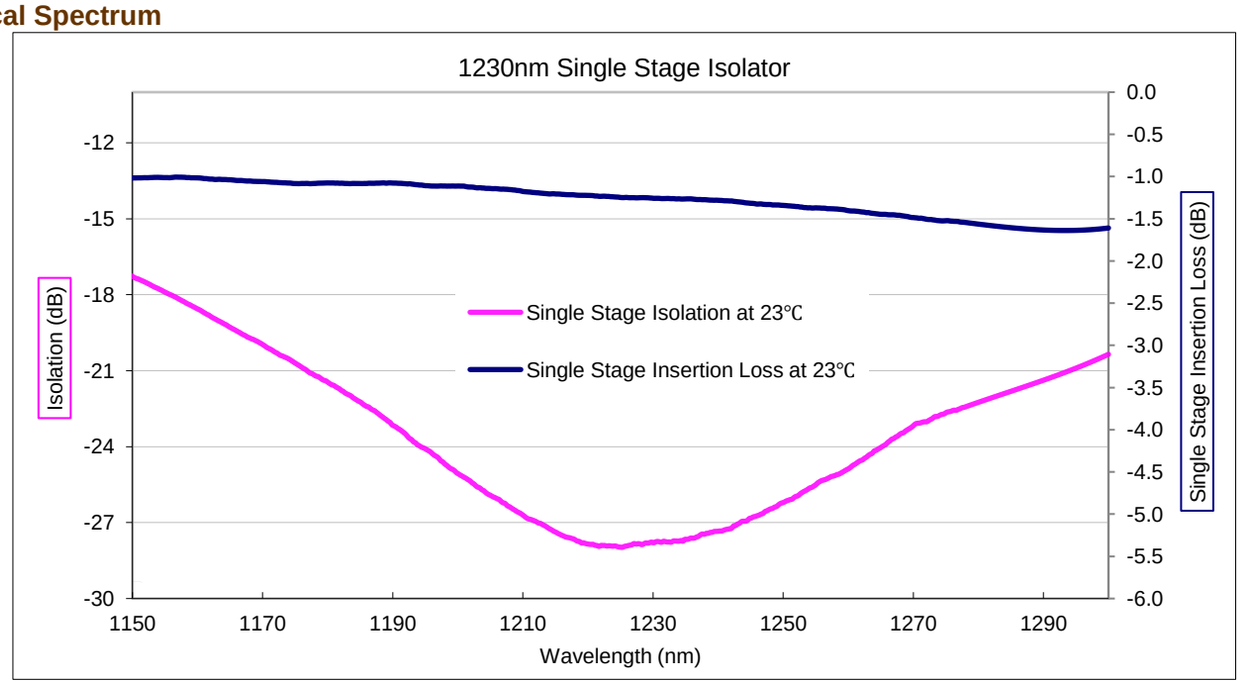
Above data test at room temperature without connectors. With connectors, IL+0.3dB, RL-5dB, PER-2dB.

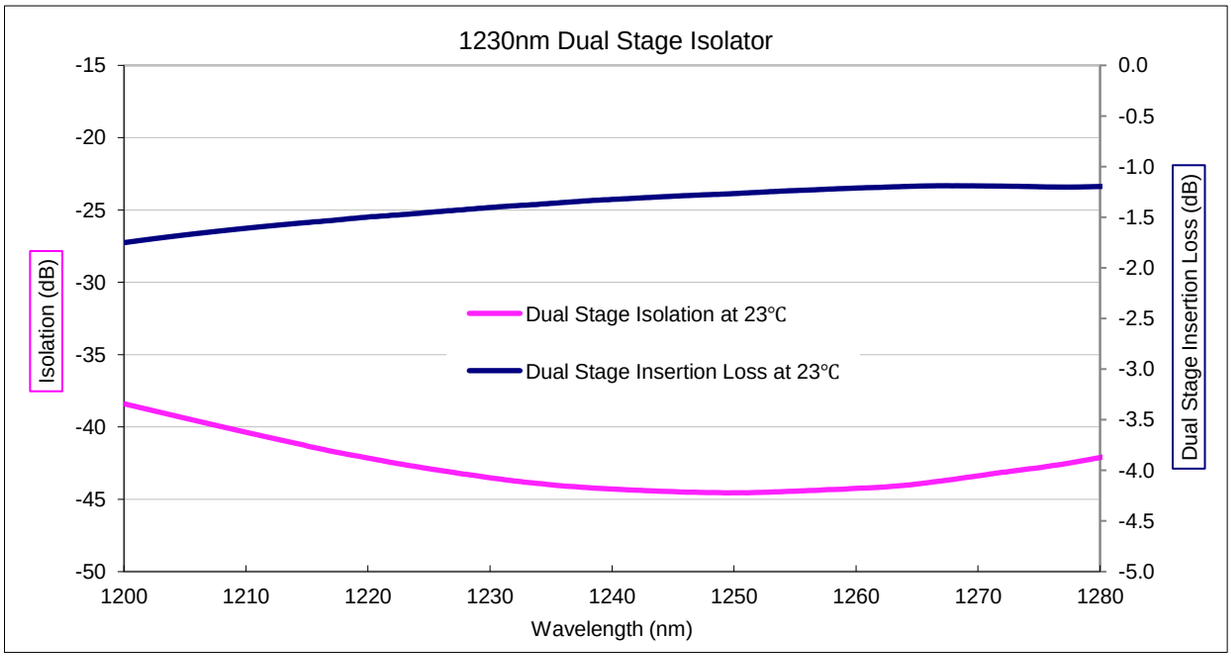
Optical Power 1W only after connector added.

Default connector key is aligned to slow axis.

Default FC connector key width 2.02mm (narrow key), 2.12mm (wide key) available on request. Key aligned to slow axis.

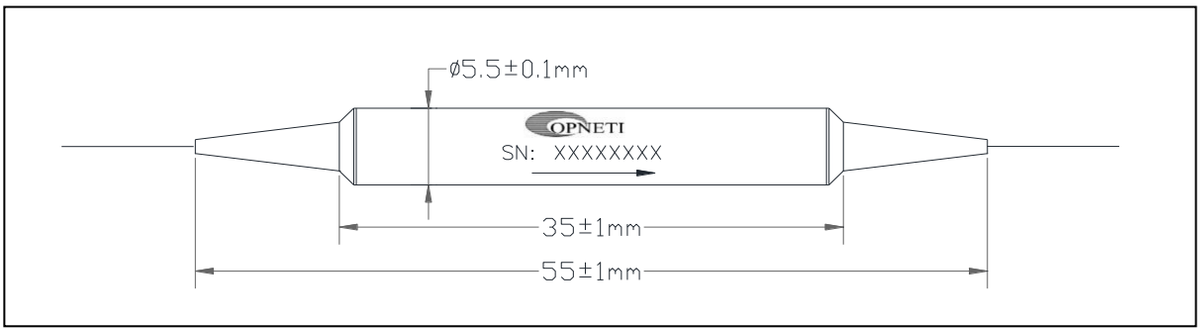
Typical Spectrum



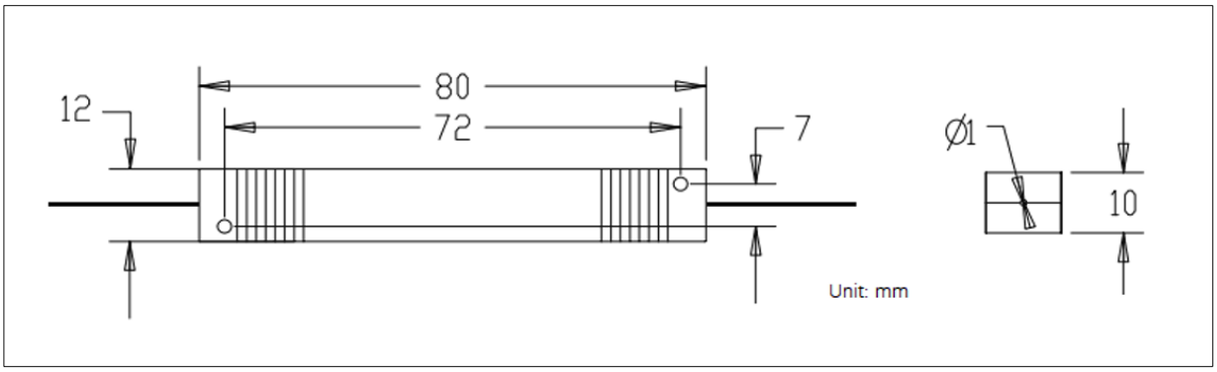


Package Information

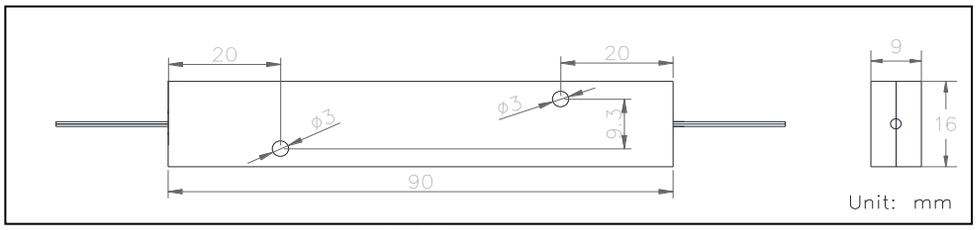
Pigtail Type	250μm Bare Fiber	900μm Loose Tube	2mm/3mm Loose Cable
Dimensions(mm)	φ5.5x35, 80x12x10	φ5.5x35, 90x16x9	φ5.5x35(no boot), 90x16x9
Approx Weight (g)	35	50	65



for 1W



for 2W



for 1~2W, with loose tube

Ordering Information

HPIS- ①-②②②②-③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧⑧⑧-⑨⑨
HPMIS-

①	Type	S=Single Stage; D=Dual Stage;
②	Wavelength	1230;
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	4=HI1060; 1=SMF-28e; P98=PM980; P13=PM1300;
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	5.5x35; 80x12x10;
⑨	Power Handling	1W; 2W;