

2 μ m 2W High Power Isolator

(polarization independent and polarization maintain)

(CW, Pulsed)

Product Description

The 2 μ m Polarization Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability. It is designed specially for 2 μ m laser system.



Features

- High Power Handling
- Low IL
- High Isolation
- High Reliability & Stability
- Cost Effective

Performance Specifications

2um High power Isolator	Single Stage	Dual Stage	Unit
Center Wavelength (λ_c)	2000		nm
Insertion Loss ¹	1.3	1.5	dB
Isolation ²	16	35	dB
Polarization Dependent Loss ³	0.2		dB
Extinction Ratio ⁴	18		dB
Return Loss	50		dB
Average Optical Power Handling ⁵	1 or 2		W
Peak Power for ns Pulse	10		KW
Fiber Type	SMF-28e/SM 1950 /PM 1550		
Operating temperature	-5 ~ 70		°C
Storage temperature	-40 ~ 85		°C

Note:

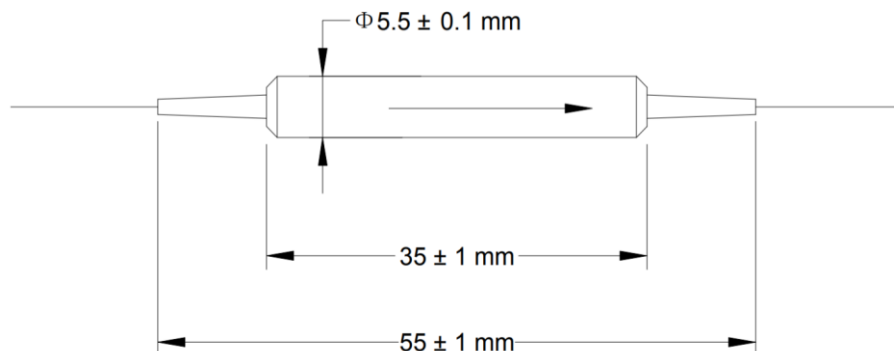
1. Measured without connectors at center wavelength and 23 °C
2. Isolation at $\lambda_c \pm 50$ nm, 23 °C, all polarization states
3. Polarization insensitive version only
4. Polarization maintaining version only
5. Continuous operation.

Applications

- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- Test and Measurement

2 μ m 2W High Power Isolator

Mechanical Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

HPPI-	A	☐	☐	☐	☐	☐	☐	☐	☐
		Wavelength	Power	Stage	Type	Fiber Type		Fiber Length	Connector
		2000nm=2 Special=0	1W=1 2W=2 Special =0	Single =1 Dual =2	CW=C Pulse =P	SMF-28e=1 SM1950 =2 PM 1550=3 Special =0	Bare fiber=1 900um tube=2 Special=0	1.0 M =1 0.75 M =2 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

15 Presidential Way, Woburn MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

www.agiltron.com