



Optical Isolator

Lightem's Optical Isolator, utilizing Faraday effect of Magneto optical crystal, is a passive component which guides optical light in one direction and resists the optical light in the backward direction. The unique manufacturing process and the epoxy-free optical path design enhance the device's high power applications. With high performance, high reliability and low cost, it has been widely used in EDFA, Raman amplifiers, LFWDM systems, fiber lasers, transmitters and other fiber optic communication equipment.

Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Low Polarization Sensitivity

Specifications

Parameters	Specifications		Unit
	Single	Dual	
Stage			/
Center Wavelength	1310 or 1550		nm
Operating Waveband	Ac+30	Ac+30	nm
Typ.Insertion Loss	≦ 0.40	≦ 0.50	dB
Max.Insertion Loss	≦ 0.60	≦ 0.70	dB
Polarization Dependent Loss	≦ 0.05	≦ 0.10	dB
Isolation Room Temperature	≧ 30	≧ 45	dB
Return Loss dB	≧ 55	≧ 55	dB
Power Handling	500	500	mW
Pigtail Type	SM 250um Bare Fiber or 0.9mm Loose Tube		/
Operating Temperature	-5 to 70		°C
Storage Temperature	-40 to 85		°C
Package Dimension	5.5 x L35		mm

For 50/125 um, 62.5/125 um Fiber, 50% coupling ratio

*Coupling Ratio/Insertion Loss Conversion Chart

Ordering information

* Ordering Code Example

