

Flyin 1060,1480nm Polarization-Insensitive Optical Isolator

Flyin Optronics' Optical Isolator utilizes Faraday effect of Magneto optical crystal. It guides optical light in one direction and eliminates back reflection and back scattering in the reverse direction at any polarization state. The unique manufacturing process and optical path epoxy-free design enhance the device's high power handling capability. The devices are characterized with high performance, high reliability and low cost. It has been widely used in EDFAs, Raman amplifiers, DWDM systems, Fiber lasers, transmitters and other fiber optic communication equipments to suppress back reflection and back scattering.

Features

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

Applications

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Fiberoptic LAN Systems
- Telecommunications



Performance Specifications

Wavelength (nm)	1060		1480	
	Single Stage	Dual Stage	Single Stage	Dual Stage
Type	P Grade			
Grade	P Grade			
Typical Isolation (dB)	40	55	41	55
Min. Isolation (dB)	30	45	31	45
Typical Insertion Loss (dB)	1.5	2.4	0.4	0.5
Max. insertion Loss (dB)	2.0	3.4	0.6	0.7
Return Loss (In/Out) (dB)	≧ 50	≧ 50	≧ 65/60	≧ 65/60
PDL (dB)	≧ 0.15	≧ 0.15	≧ 0.05	≧ 0.05
PMD (ps)	0.20	0.05	0.20	0.05
Bandwidth(nm)	±10	±10	±15	±30
Operating Temperature (°C)	-10 ~ +75			
Storage Temperature (°C)	-40 ~ +85			
Fiber Type	Corning Hi 1060		Corning SMF-28	
Fiber Length (Min.)	1 meter each end			
Dimensions (mm)	Φ5.5 x L30			
Optical Power Handling (mW)	300			

Dimension



Ordering Information

XX	XX	X	X	X	XX
Isolator Type	Wavelength	Grade	Pigtail Style	Fiber Length	In/Out Connector
IS=Single stage IU=Dual stage	10=1060nm 13=1310nm 14=1480nm 15=1550nm LB=L Band	P=Premium	1=Bare Fiber 2=900um jacket	1=1.0m 2=1.5m 3=2.0m 4=Custom Length	0=none 1=FC/APC 2=FC/PC 3=SC/AC 4=SC/PC 5=ST 6=LC