Michelson Fiber Optic Interferometer

Specialist in Special Optic Devices

Introduction

Interference is the basic phenomenon of optics. The normal structure of the Michelson interferometer consists of two mirrors that sit perpendicular to one another, and a beamsplitter mounted at a 45° angle to each mirror. It is a device that splits a beam of light, bounces the two beams off separate mirrors, and recombines them from different paths, and widely used fiber sensor systems.

Application

- **Fiber Sensor**
- **Optical Fiber Underwater Acoustic System**
- **Optical Fiber Geophysical System**

Specification

Parameters	Unit	Values
Center Wavelength	nm	1550±20nm
Excess Loss	dB	≤0.3
Directivity	dB	≥55
Polarization Dependent Loss	dB	≤0.25
Insertion Loss	dB	<0.7
Max Tensile Load	N	5
Operating Temperature	℃	-45+70
Storage Temperature	℃	-55+85
Water Pressure Resistance	Mpa	5-25
Fiber Type	nm	SMF28e bare fiber 7/125um BI bare fiber 7/80um BL bare fiber

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*Above specifications are for device without connector and may change without notice.

Ordering Information

GSY-①-②-③-④-⑤-⑥-⑦-⑧-⑨

①Center Wavelength	② Configuration	③Coupling Ratio	④Package Dimension	⑤Fiber Type	⑥Input Fiber Length	⑦Output Fiber Length	⑧Fiber Jacket	⑨Connector
1550-1550nm	1x2	1-1/99	2.5x20	SM1500-SM1500	1-1M	S-Specify	0-Bare Fiber	FU-FC/PC)
	2x2	50-50/50	2.4x25	SM1500HT-SM-1500HT	1.5-1.5M		1-900 μ m Loose Tube	FA-FC/APC
	3x2	S-Specify	2.4x30	G657A1	S-Specify			N-None
			3.0x3.0	BL1015A-BL1015A				
			S-Specify	BL1015B-BL1015B				
				S-Specify				