

Lightcomm High Power Components Introduction

Typical Industrial Fiber Laser Application

▶▶ Key Features

- High isolation
- Low insertion loss
- Excellent stability and reliability
- CW and Pulse laser available

▶▶ Applications

- Fiber lasers
- Fiber amplifier
- Sensor
- High power modulator

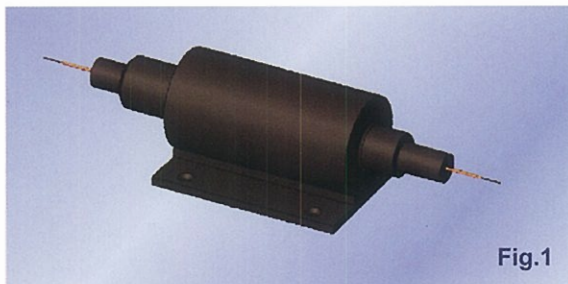


Fig.1

High power isolator

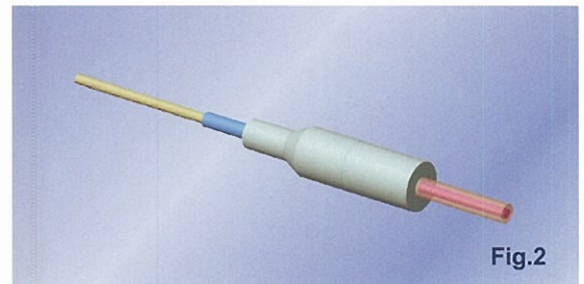


Fig.2

High power collimator

▶▶ High Power Isolator Specifications

Parameter Type	Wavelength range (nm)	Single stage	Dual stage	Single stage	Dual stage	Fiber type	Dimension Φ×L (mm)	Remark
		IL (dB)		Isolation (dB)				
Isolator	1310, 1480 or 1550±20	≤0.55	≤0.6	≥28	≥46	SMF-28e	5.5×34	1, 3, 5W
PM Isolator		≤0.55 -	≤0.65	≥28	≥46	PM1550	5.5×34	1, 3, 5W
Non-PM or PM Isolator	1064±5	≤1.2		≥30		HI1060 Or PM980	See Fig.1	1~10W or specify

▶▶ High Power Collimator Specifications

Parameter Type	Operating wavelength (nm)	Working distance (mm)*	IL (dB)	RL (dB)	Power handling (W)	Beam diameter (mm)	Dimensions Φ×L (mm)
Non-PM or PM	1310, 1550	5 or specify	≤0.25	≥50	1, 5, 10 or Specify	0.5 or specify	3.2×10 or specify See Fig.2
	1060	50 or specify	≤0.3	≥50			

* Working Distance (WD) is defined below:

