

ASE Light Source



Beogold's ASE light source for fiber optic gyro has been designed with circular and rectangular structures for different project requirements; And the output types can be divided into Gaussian and Flattened. Optimized optical path structure, spectral filtering and power control are used to improve the scale factor stability and full temperature stability of the fiber optic gyro.

It has been subjected to rigorous reliability tests in the range of $-40-70^{\circ}\text{C}$, including mechanical shock, mechanical vibration, high and low temperature tests, temperature cycling tests, etc.. Widely used in fiber optic gyro, scientific research, medical imaging, and passive device testing.

Features

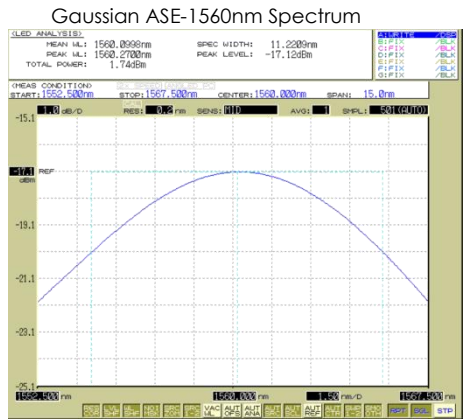
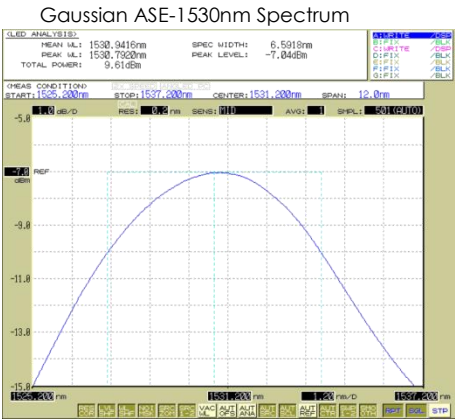
- High Reliability
- Output Power: 20dBm
- Average Wavelength Stability@Full temperature: $< 20\text{ppm}$
- Power Stability@Full temperature: $< 5\%$
- Wide Operating Temperature: $-40-70^{\circ}\text{C}$
- Optional Spectrum

Applications

- Fiber Optic Gyroscope
- Research and Development
- Passive Device Testing
- Biomedical Imaging

Parameters	Gaussian		Flattened	Unit	Remark
Wavelength	1530	1560	1528 ~ 1566	nm	
Output Power	≤50	≤50	≤200 (Tunable)	mW	Customizable
Spectral Width	7	11	38	nm	
Spectral Flatness	-	-	≤1.5	dB	
Power Stability	1	1	1	%	@25℃
	5	5	5	%	@Full temperature
Wavelength	5	5	-	ppm	@25℃
Stability	20	150	-	ppm	@Full temperature
Spectral Modulation	0.03	0.03	0.1	dB	
Polarization Extinction Ratio	0.2	0.2	0.2	dB	
Working Temperature	-40~70		-10~60 -40~70	℃	

Output Waveform Spectrum



Parameters		Indicators	Remark
Electrical	Supply Voltage	DC +5V/GND	
	Power Consumption	25℃<1.5W; Full Temperature<4.0W	Normal
		25℃<1.5W; Full Temperature<4.0W	Low power
			consumption
Mechanical Dimensions	Orbicular	Φ45、Φ60、Φ98、90×70×15mm	Customizable
Pigtail Type	Bare Fiber	80/170um SM	
		125/250um SM	
	Jumper	SMF-28e,900um jumper	Customizable

C-band Flattened Light Source Spectrum



Mechanical Examples:



Φ45×15mm



Φ60×15mm



Φ98×14mm



90×70×15mm

For ordering information and custom solutions, please contact us: hong-wn@beogold.com

Beogold Technology provides cost-effective optical modules and optical devices for fiber optic communication and fiber sensing system integrators. We provide customized optical total solutions to shorten customer development cycles and improve product reliability and consistency.

