

Introduction

CSRayzer's Amplified Spontaneous Emission (ASE) Light Source, has two kinds of Circular and Rectangular, according to customer's structural requirements of different designed FOG. The ASE Light Source for Fiber Optic Gyroscope (I-FOG) is a light source module designed for high performance Fiber Optic Gyroscope. This kind of ASE Light Source adopts optimized optical path structure, spectral filtering and power control, which improves the stability of scale factor and full temperature working performance of FOG. In order to meet the requirements of different environmental conditions, the light source has been strictly checked in the range of -45°C - 70°C , also the optical and electrical system from components to modules. Integrative precision temperature control technology is adopted in the light source, which not only ensures the spectral stability of the light source, but also reduces the overall power consumption of the light so.



Specification

Parameters	Unit	Min	Max
Optical Operating Wavelength	nm	1531±20	1560±20
3dB Bandwidth	nm	6.5	7.5
Output Optical Power	mW	3	30
Modulation Depth	dB	-	0.05
Full Temperature Power Stability	%	15	10
Wavelength Stability @25°C	ppm	3	5
Wavelength Stability @ Full Temp	ppm	10	100
Working Temperature	°C	-45+70	
Storage Temperature	°C	-50+85	
Relative Humidity	%rh	5-90	
Power Consumption	W	3.5	
Power Supply	-	DC 5V	
Power connector	-	5V-GND	
Fiber Type	-	SMF28e	
Package Dimension	mm	Φ120, Φ98, Φ70	