

High-precision ASE Light Sources Module (C-band)

AER-MCASE-00-00-M

Features

- * High Precision
- * Excellent temperature stability
- * Highly reliable and stable
- * Low power consumption
- * Compliant with MIL-STD-810

Applications

- * Fiber optic gyroscope
- * Fiber optic sensing
- * Optical measurement system
- * Optical fiber characterization

Description

GIP Technology High-precision ASE light sources (AER-MCASE-00-00-M) are based on the technology of utilizing doped fiber to generate amplified spontaneous emission (ASE).

FOG Photonics offers a full range of industry-leading ASE light sources, which integrate APC (Automatic Power Control) circuits to precisely regulate power variations.



Furthermore, these light sources have passed military-grade certification. As a result, they exhibit excellent performance, including spectral and power stability, making them suitable for high-precision fiber optic gyroscopes (FOG).



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Specifications

Optical Information		Unit	Description	
Wavelength		nm	1525 ~ 1535	1525 ~ 1570
Output power	Min.	dBm	5	
Mean-wavelength variation	Max.	ppm	±10	±100
Output power stability (25°C, 1hr)	Max.	dB	±0.02	
Output power variation (-20 ~ +60°C)	Max.	%	6	
Return loss	Min.	dB	45	
Fiber type			SMF-28	
Electrical Information				
Operating voltage		Vdc	5	
Control mode			APC	
Environmental Information				
Operating temperature		°C	-20 ~ +60	
Storage temperature		°C	-20 ~ +80	
Environmental verification			Compliant with MIL-STD-810	
Mechanical Information				
Dimension			Circular / Square	