Space Qualified ASE Light Sources Module (C-band)
AER-SCASE-00-00-M

Features

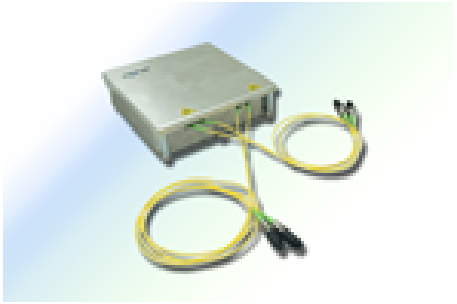
- Space-grade
- Excellent temperature stability
- Highly reliable and stable
- Low power consumption

Applications

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

Description

GIP Technology Space-qualified ASE light sources (AER-SCASE-00-00-M) are based on the technology of utilizing doped fiber to generate amplified spontaneous emission (ASE). Space-qualified ASE module offers a full range of industry-leading ASE light sources, which integrate APC (Automatic Power Control) circuits to precisely regulate power variations.



As a result, they exhibit excellent performance, including spectral and power stability, making them suitable for high-precision fiber optic gyroscopes (FOG).

Additionally, this broadband light source is designed with redundant power architecture to enhance reliability in space environments. Furthermore, it has passed space environment certification.

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Specifications

Optical Information		Unit	Description
Center wavelength*1	Mea.	nm	1534±1
Spectrum width (3dB)	Min.	dB	12
Output power	Min.	dBm	3
Output power stability (25℃, 1hr)	Max.	dB	±0.3
Return loss	Min.	dB	50
Fiber type			SMF-28
Electrical Information			
Operating voltage		Vdc	3.3
Control mode			APC
Environmental Information			
Operating temperature		°C	-20 ~ +65
Storage temperature		°C	-20 ~ +80
Environmental verification (vibration, radiation, thermal vacuum)			Compliant with ECSS-E-ST-10-03C