

SPACECRAFT SYSTEMS

Micro-Nano Earth Sensor

The infrared Earth sensor is an attitude-sensitive device used in satellite attitude control systems.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Model	C-IRES-LAS-4
Measurement Accuracy	0.2° (3σ)
Flight Heritage	Completed qualification
Application	Low Earth Orbit satellites
Dimensions (mm)	51.5 × 58 × 58
Weight (g)	100
Mounting Material	2A12 T4
Operating Temperature (°C)	-5 to +50
Storage Temperature (°C)	-10 to +55
Data Update Rate	5 Hz
Communication Interface	RS-422 / CAN / I²C
Design Life	2 years

Quick Overview

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Key Specifications

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Key Features

- Low-cost design and implementation.
- Integrated opto-electronic structure with high compactness.
- Lightweight and small form factor.
- High adaptability to space environments.

Applications

- Used for attitude determination and control in low-orbit microsatellites and CubeSats.

Documentation & Resources

- [Technical Specifications](#)
- [Applications](#)