TAKEME2SPACE

SunSense – Coarse Sun Sensor

Technical Specifications



Description:

SunSense, our advanced sun sensor, gives you a wide sensing range and a desirable operational temperature, delivering precision and reliability. Its compact design makes it an ideal fit for any CubeSat configuration. Featuring a low shut-down current consumption, SunSense ensures efficient energy management. SunSense's sensor includes on-board temperature compensation. It also includes a low-noise amplifier and a 16-bit ADC. It comes with a hard anodised AL 6061 enclosure, making it mountable externally on all solar panels.

Specifications:

	Parameter	Value
Performance	Interface Type	Digital
	FOV (Field of View)	110°
	Accuracy	± 10°
	Range	0 to 228 kLux
	Output resolution	0.0034 lux/counts
	Sampling rate	400ms/sample
	Operational temperature	-40° to 110°C
Mechanical	Dimensions (including housing)	30mm x 22mm x 7.6mm
	Mass	~15 g
	Connector	4-pin Molex pico-blade
Electrical	Peak power consumption	0.9 mW
	Shutdown current consumption	0.5 µA (max)
	Operating Voltage	2.5V to 3.3V (nominal)
	Communication Interface	I2C
Testing & compliance	T-Vac	2 Cycles with temperature range of +60℃ to -25℃
	Vibration	Random vibration acceptance test levels 20 - 2000 Hz at 4.47grms for 60 seconds
	Shock	100 Hz at 30g 1000 Hz at 1500g 5000 Hz at 1500g

Questions? Queries? Contact us at info@tm2.space