

ITAR FREE

Space Qualified



Description

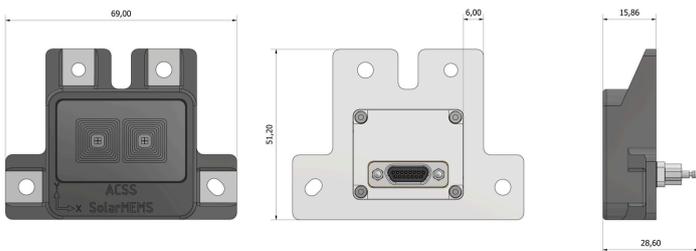
Advanced Coarse Sun Sensor (ACSS) is a device for sun-tracking and attitude determination. This sensor measures the incident angle of sun ray in two orthogonal axes, providing a high sensitivity based on the geometrical dimensions of the design. ACSS sun sensor offers the highest reliability and radiation hardness for the most demanding LEO, MEO and GEO missions.

CSS technology of Solar MEMS has flight heritage since 2019 with hundreds of flight units delivered, and its manufacturing process has been developed and industrialized for mass production.

Qualification Data and Flight Heritage

Orbit and lifetime	Designed for LEO, MEO and GEO - 15 years
Operating Temperature	-55 to 105° Celsius
Mechanical test	Shock 2000 g 18.3 g @ 20-2000 H
Endurance test	600 cycles from -55 to 105°C 2000h at 125°C
EMC/ESD	ECSS-E-ST-20-07C MIL-STD-461F

Mechanical Interface



measuring scale: mm

Features

Sun sensor Type	Double redundancy 2 orthogonal axes
Field of View	±60°
Accuracy	<3° (3sigma, no calibrated)
Electrical interface	Analog, 15-pin micro connector
Power supply	15-30V, 3 mA
Operating Temperature	-45° to 85° Celsius
Mechanical interface	70 x 52 x 16mm