



NST10-G2 STAR TRACKER

Is a fully autonomous high precision nano attitude sensor, dynamic performance up to $10^\circ/s$ to meet the ultra-high dynamic requirements of satellites. The 25° sun exclusion angle plus the secondary baffle guarantees that the star tracker will work at 25° and outside the 45° is not disturbed by stray light.

PDF

Dimensions	
Sensor + Baffle	80 × 80 × 266mm ³
Mass	
Sensor + Baffle	<850g
Optical Design	
Lens	refractive
Environmental Tolerance	
Vibration(Flight mode)	sine 13g, random 12 grms
Vibration(Qualification testing)	sine 16g, random 18 grms
Radiation Hardness	30 Krad [si]
Thermal	-40~+45 (°C)
Performance	
Field of View	18° × 18° [effective]
Attitude Accuracy	<3°[3σ] pointing <30°[3σ] rolling
Update Rate	≥20 Hz
Slew Rate	10° /s
Sensitivity	5.8Mv, G0.Ref star
Exclusive Angle	Sun: <25° Earth: <20°
Data Interface	
	422/CAN/1553B
Power Consumption	
	2±0.2W
Operating Modes	
	Boot, Autonomous attitude determination, Nominal attitude tracking, Photo
Input Voltage Range	
	5V
Life Time	
	7years (500Km orbit) 5years (1000Km orbit)