

Three–Axis Magnetometer (TAM) for Satellite MS-22

Three-Axis Magnetometer (TAM)

MS-22

- Magnetometer measure earth magnetic fields on satellite in space.
- 3-axis magnetometers measure values of the x, y and z axes magnetic field components.
- Magnetometer was fabricated with space grade components.



Applications

- Attitude control is important for satellites, and the attitude can be controlled using the earth's magnetic field.
- Magnetic torquers and 3-axis magnetometers are used to control the attitude of satellites.

Characteristic

- It's used to control the attitude of satellites. It has light weight and low power consumption.
- It senses attitude by measuring 3-axis components of the earth's magnetic field.

Specification

MS-22	
Measuring range	$\pm 60 \mu\text{T}$
Resolution	10 nT
Communication interface	Analog output
Linearity	$\pm 0.1 \%$
Axis alignment	Max. $\pm 1^\circ$
Bandwidth	10 Hz
Input Voltage	+/-15 V
Power consumption	< 1.1 W

Operating environment and Mechanical

Operating Temp.	-40°C ~ +53°C
Dimension (mm)	50 X 155 X 35 (± 0.2)
Total weight (g)	< 350
Coating	Chromate or anodizing
Connector	DEMM9PNMBK52