

Magnetic Torquer for Satellites

Magnetic torquer MS-12, MS-20, MS-25

- It's used to control the attitude of satellites.(It generates a magnetic dipole moment)
- Sizes and characteristics of magnetic torquers can be adjusted according to requests of customers.



Applications

- It's designed with a light mass for application in satellites.
- To reduce mass, employed magnetic core has high saturation magnetic induction.

Characteristic

- All materials except magnetic cores are non-magnetic.



Specification

	MS-12	MS-20	MS-25
Number of coil	2	2	2
Saturation (Am ²)	> ± 13	> ± 28	> ± 53
Linear range (Am ²)	> ± 13	> ± 26	≥ ± 45
Linearity	< 1%	< 1%	< 1%
Hysteresis	< 0.2%	< 0.2%	< 0.2%
Input Voltage(V)	± 28	± 28 or 15	± 13

Operating environment and Mechanical

Operating Temp.	-40 ~ 60	-40 ~ 60	-40 ~ 60
Dimension (mm)	250 X Φ25	350 X Φ26	450 X Φ33
Total Mass (g) (Rod+ Holder)	< 640 g	< 880 g	< 1450 g
Coating	Chromate	Chromate	Chromate
Connector	Standard D-sub. 9 pin Male	Standard D-sub. 9 pin Male	MS27499E8F35S