

Magnetic Torquer for Satellite



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Magnetic torquer

Generation of magnetic dipole moment

Designed light mass for satellite application



Applications

- The products used to control the attitude of the satellite.

Characteristic

- To reduce mass, employed magnetic core has high saturation magnetic induction.
- All materials except magnetic core 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	± 15

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