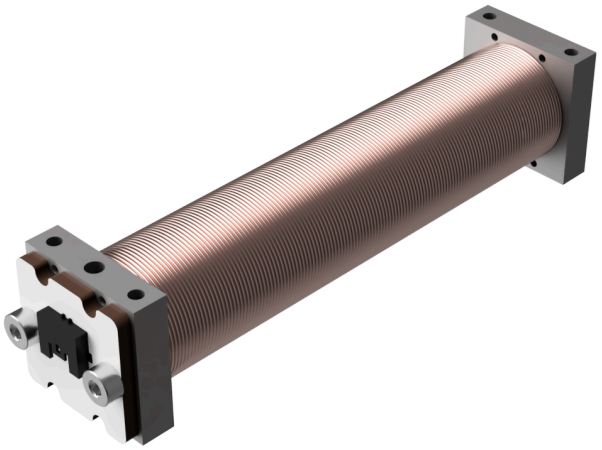
TAKE ME 2 SPACE

HyperMagCoil

Technical Specifications



Description:

The MT0X03 Magnetorquer is designed for precise attitude control in CubeSat ADCS systems. It efficiently generates magnetic torques for orientation adjustments and is built for robust performance with a durable end cap.

Specifications:

Properties	**MT0X03**
Length of MT	60 mm
Diameter of MT (without endcaps)	~13.89mm/~14.63mm
Dimension of MT	71.5 x 16 x 16 mm
Magnetic permeability of core	~1200
Max current rating	400 mA
Max magnetic dipole moment	~0.64 Am^2/~0.74 Am^2
Weight	80 gms
Connector	2 pin Molex Pico blade
Operational Temperature	-40C to 120C
End Cap material	Aluminium 6061 T6

	Parameter	**Value**
Power	Operating Voltage	5V
Properties	Magnetic permeability of core	~1200
	Max current rating	400 mA
	Max magnetic dipole moment	~0.64 Am2/~0.74 Am2
Mechanical	Length of MT	60mm
	Diameter of MT	-13.89mm/-14.63

Testing & Compliance	T-Vac	2 Cycles with temperature range of +60℃ to -25℃
	Vibration	Random vibration acceptance test levels 20 - 2000 Hz at 4.47grms for 60 seconds
	Shock	100 Hz at 30g 1000 Hz at 1500g 5000 Hz at 1500g

Questions? Queries? Contact us at info@tm2.space