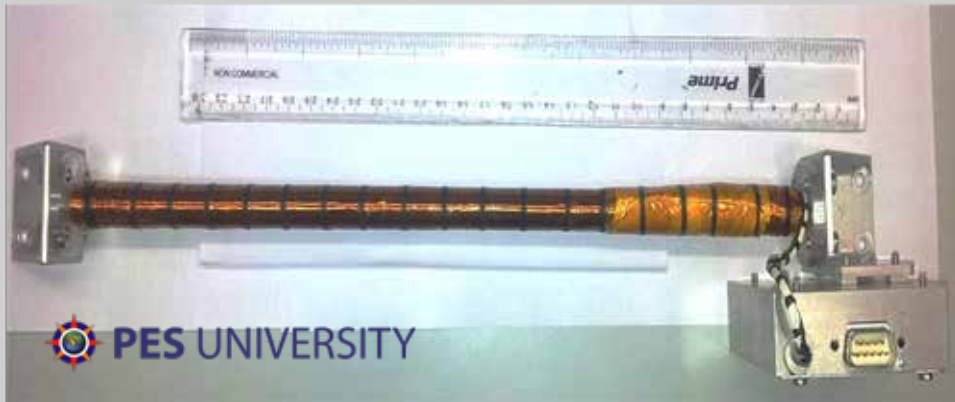




# SATELLITE COMPONENTS

[www.xovian.co.in](http://www.xovian.co.in)

# SPACE QUALITY MAGNETIC TORQUER ROD (MTR) FOR LOW EARTH ORBIT (LEO) 15Am<sup>2</sup>



MTR are regularly used in Communication Satellites and Remote Sensing Satellites. They are predominantly used for momentum dumping i.e. de-saturation of momentum wheels and reaction wheels. Angular momentum and notation control of spinning momentum-biased and dual-spin spacecraft.

## Specification:

<i>Parameter</i>	<i>Value</i>
Magnetic dipole moment	15Am <sup>2</sup>
Operating Voltage	28 (+4/-2) V Raw bus
Operating Temperature	-30 °C to 50 °C
Core Material	Suitable soft magnetic alloy Permendur 49
Coil Material	Type M2 Class 220 Magnet wire
Protection and monitoring	Back to back Zener diode protection network and resistive potential divider for voltage monitoring
Mechanical envelope and interface (MTR Assembly)	As per drawing No. RCI1-MT15-3-020/00
Electrical interface	9 pin D-type connector (plug)