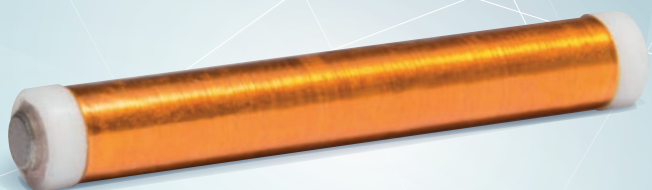
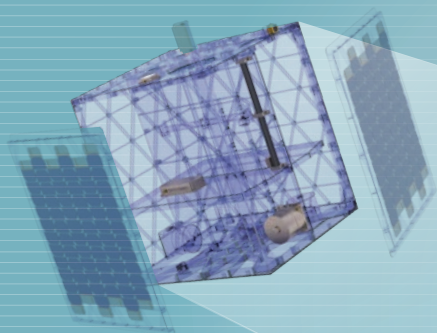


# CUBESAT MAGNETORQUER ROD



## PERFORMANCE

### CubeSat Magnetorquer Rod

#### FUNCTIONAL CHARACTERISTICS

Magnetic moment	$> 0.2\text{Am}^2$
Linearity	Better than $\pm 5\%$ across operating design range
Residual moment	$< 0.001\text{Am}^2$
Operating range	$-35^\circ\text{C}$ to $+75^\circ\text{C}$
Random vibration	14g rms

#### PHYSICAL CHARACTERISTICS

Dimensions	70mm (length) x 9 mm (diameter)
Mass	$< 30\text{g}$
Power	200mW from 5 Volt supply

#### INTERFACES

Power supply	5 Volt
Data	None
Connector	Coil wires solder direct to PCB pads
Mechanical	Tied directly to PCB

#### FEATURES

- Low cost standard product
- High moment for low power
- Small size and low mass
- Simple interface
- No residual magnetic moment

#### APPLICATIONS

- Active damping for spin stabilised, momentum biased and gravity gradient controlled CubeSat's
- Momentum dumping of reaction wheels in three axis stabilised spacecraft

#### QUALIFICATION

More than one hundred and fifty rods delivered to CubeSat programmes over the last eight years.