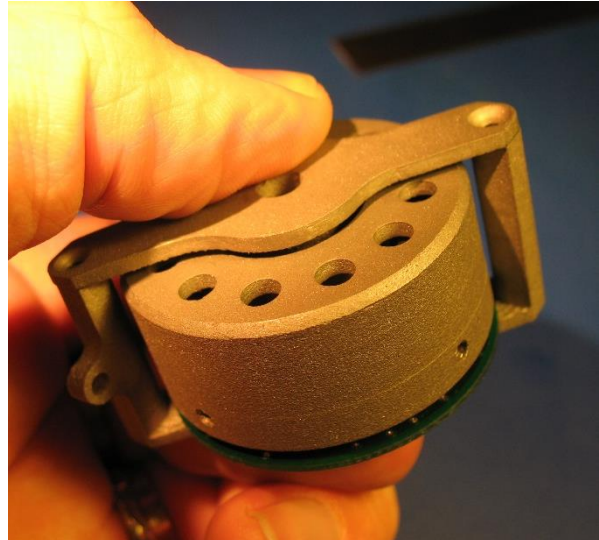
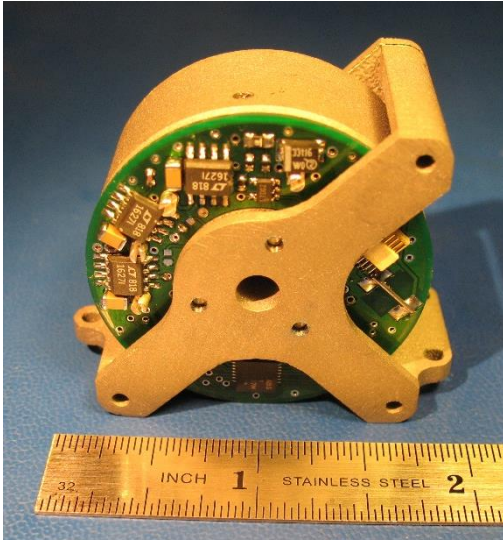
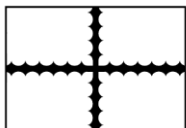


Picosatellite Reaction Wheels (RW-0.007-4)



Nominal Momentum	7 mNm-sec @ 4460 RPM
Nominal Torque	1 mNm
Control Mode	Speed or Torque, built-in control CPU
Command / Telemetry	UART, I ² C/SMBus, or SPI
Mechanical	50 mm x 40 mm x 27 mm, 90 g mass
Supply Voltage	3.4 to 6.0 V nominal (8 V max)
Supply Power	0.7 W maximum under full torque 0.2 W @ 4460 RPM steady-state 0.1 W @ 2000 RPM steady-state
Environment	-40°C to +70°C operating temperature >12 g_{RMS} Vibration, >20 krad radiation dose
Reliability	Diamond coated hybrid ball bearings Redundant motor windings Radiation lot-screened parts
Heritage	Common design to RW-0.03-4, with >5 year on-orbit



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