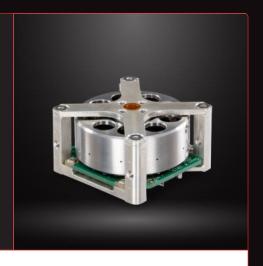
REACTION WHEEL

RW-0.01 Data Sheet



MOMENTUM	Nominal: ±0.01 Nms Peak: ±0.018 Nms (at 5 V)
TORQUE	±1 mNm at 0.01 Nms (at 5 V)
CONTROL MODE	Speed or Torque
COMMAND/TELEMETRY	UART/ASYNC
MECHANICAL	Dimensions: 50 mm x 50 mm x 30 mm Mass: 122 g
SUPPLY VOLTAGE	3.4 V to 6.0 V (nominal 5V)
SUPPLY POWER (28 V in VACCUM)	1.05 W @ 0.01 Nms, +1 mNm 0.25 W @ 0.018 Nms, steady state 0.11 W @ 0.005 Nms, steady state (See below power curve for various torque commands)
ENVIRONMENT	Thermal: -30°C to +85°C (operating) Vibration: 12.87 gRMS Radiation (TID): 24 krad (board level)
FLIGHT HERITAGE	Total of 19 units on orbit, with cumulated 92 years of heritage since first launch in 2014. Common design with RW-0.03, with additional 87 units and 446 years since 2008.

