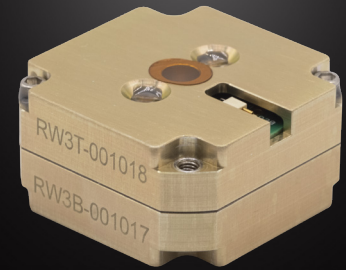


REACTION WHEEL

3 mNms RW-0.003 Data Sheet

Version 2, 7 April 2022



MOMENTUM	Nominal: 0.003 Nms @ 8,500 rpm Peak: 0.005 Nms (at 5 V supply)
TORQUE	±1 mNm at 0.005 Nms (at 5 V supply)
CONTROL MODE	Speed or torque, with built-in control CPU
COMMAND/TELEMETRY	UART or I ² C/SMBus
MECHANICAL	Dimensions: 33.5 x 33.5 x 17 mm Mass: <50 g
SUPPLY VOLTAGE	Nominal: 4.5 to 9.0V
ENVIRONMENT	Thermal: -40°C to +70°C (operating) Vibration: >14 gRMS Radiation: >10 krad dose
RELIABILITY	Advanced hybrid ball bearings Radiation lot-screened parts (optional)
HERITAGE	Bearing common to RW-0.03 and RW-0.01 More than 100 Sinclair Interplanetary wheels on-orbit
PRICE	US \$15,000 each, +US \$2,000 for radiation lot-screened parts