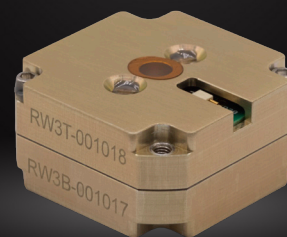


# REACTION WHEEL

## 3 mNms RW-0.003 Data Sheet

Version 1, 14 July 2021



<b>MOMENTUM</b>	Nominal: 0.003 Nms @ 8,500 rpm Peak: 0.005 Nms (at 5 V supply)
<b>TORQUE</b>	±1 mNm at 0.005 Nms (at 5 V supply)
<b>CONTROL MODE</b>	Speed or torque with built-in control CPU
<b>COMMAND / TELEMETRY</b>	UART or I <sup>2</sup> C/SMBus
<b>MECHANICAL</b>	Dimensions: 33.5 x 33.5 x 17 mm Mass: <50 g
<b>SUPPLY VOLTAGE</b>	Nominal: 4.5 to 9.0V
<b>ENVIRONMENT</b>	Thermal: -40°C to +70°C (operating) Vibration: >14 gRMS Radiation: >10 krad dose
<b>RELIABILITY</b>	Diamond coated hybrid ball bearings Radiation lot-screened parts (optional)
<b>HERITAGE</b>	Bearing common to RW-0.03 and RW-0.01 More than 100 Sinclair Interplanetary wheels on-orbit
<b>PRICE</b>	US\$15,000 each, +US\$2000 for radiation lot-screened parts