NANOSATELLITE REACTION WHEELS (RW-0.03)



SPECIFICATIONS

Nominal: o.o3 Nms
Peak: o.o4 Nms (at 5 V supply)
±2 mNm at 0.02 Nms
±0.5 mNm at 0.04 Nms (at 5 V supply)
Speed or torque with built-in control CPU
UART or I ² C/SMBus
Dimensions: 50 mm x 50 mm x 40 mm
Mass: 185 g
Nominal: 3.4 V to 6.0 V, Maximum: 8 V
1.8 W @ 0.02 Nms, +2 mNm
0.3 W @ 0.04 Nms, steady state
0.1 W @ 0.01 NMS, Steady State
Thermal: -40°C to +70°C (operating)
Vibration: >12 gRMS
Radiation: > 20 krad dose
Diamond coated hybrid ball bearings
Redundant motor windings
Radiation lot-screened parts (optional)
55 Units total on-orbit, on 20 satellites
First launch April 28, 2008, design essentially unchanged
Demonstrated 12 arc-sec RMS pointing on 7 kg satellite
US\$25,000 each, +US\$2,000 for radiation lot-screened parts

SOCKET

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ROCKETLABD



UNDERSTANDING REACTION WHEEL PART NUMBERS



Not all combinations mutually possible. Please consult factory for full selection.

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