REACTION WHEEL

RW-0.06 Data Sheet



MOMENTUM	Nominal: ±0.06 Nms Peak: ±0.18 Nms (at 28 V)
TORQUE	±20 mNm at 0.12 Nms (at 28 V)- see below torque-box
CONTROL MODE	Speed or Torque
COMMAND/TELEMETRY	Redundant RS-485
MECHANICAL	Dimensions: 77 mm x 65 mm x 38 mm Mass: 233 g
IMBALANCE	Static: 0.25 g·mm Dynamic: 2.5 g·mm²
SUPPLY VOLTAGE	7.5 V to 34 V (nominal 28 V)
POWER (28 V in VACCUM)	Steady state: 0.5 W @ 0.06 Nms, 0.9 W @ 0.12 Nms (See below power curve for various torque commands)
ENVIRONMENT	Thermal: -30°C to +85°C (operating) Vibration: 15.82 gRMS Radiation (TID): 20 krad (board level)
FLIGHT HERITAGE	Total of 271 units on orbit, with cumulated 735 years of heritage since the first design launched in 2014





