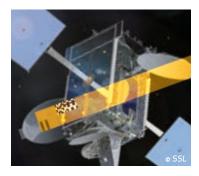


HIGH POWER TYPE 5-TC SOLAR ARRAY DRIVE ASSEMBLY



The single axis High Power Solar Array Drive Assembly (SADA) is based on the Type 5 Rotary Incremental Actuator. This standard SADA meets up to 10 kilowatts of power transfer. The design is configured with a Harmonic Drive gear set driven by a Moog discrete permanent magnet stepper motor, potentiometer for position sensing and a high power Twist Capsule assembly for power transfer.









HIGH POWER TYPE 5-TC SOLAR ARRAY DRIVE ASSEMBLY

SPECIFICATIONS

Data	Basis	Units	Parameter
0.0075	Standard	Degrees	Output Step Angle
48000	Standard	Steps	Steps per Revolution
300 (2.25)	Maximum	Steps/sec (Deg/sec)	Max. Output Step Rate
zero backlash	Maximum	Degrees	Backlash
-24 to +61	BaTalStanakandum	°C	Operating Temperature Range
350,000	Minimum	lb-in/Rad	Torsional Stiffness
500,000	Minimum	lb-in/Rad	Moment Stiffness
200,000	Minimum	lb/in	Axial Stiffness
800,000	Minimum	lb/in	Radial Stiffness
370	Nominal	lbf	Output Load Capability Axial
370	Nominal	lbf	Radial Stiffness
430	Nominal	Lb-in	Moment
500	Minimum	Lb-in	Output Torque
+/- 0.02	Better than	Degrees	Mechanical Accuracy
300	Minimum	Lb-in	Unpowered Holding Torque
than	+/1C6-1.35 Holding	Better	Powered Holding Torque
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