GENERAL SPECIFICATION OF
HS-1005SGT HIGH VOLTAGE TORQUE GIANT SERVO

1. TECHNICAL VALUE
   CONTROL SYSTEM: +PULSE WIDTH CONTROL 1500usec NEUTRAL
   OPERATING VOLTAGE RANGE: 12.0V TO 15.0V
   OPERATING TEMPERATURE RANGE: -20°C TO +60°C (-4°F TO +140°F)
   TEST VOLTAGE: AT 11.1V
   OPERATING SPEED: 0.26sec/60° AT NO LOAD
   STALL TORQUE: 84.0kg.cm(1166.52oz.in)
   STANDING TORQUE: -
   IDLE CURRENT: 90mA AT STOPPED
   RUNNING CURRENT: 1100mA AT NO LOAD RUNNING
   (±600usec WITH TRIM)
   STALL CURRENT: 5500mA
   DEAD BAND WIDTH: 2usec
   INPUT SIGNAL: ±5.0V 1500usec±400usec
   OPERATING TRAVEL: 40°/ONE SIDE PULSE TRAVELING 400usec
   DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
   MOTOR TYPE: CORED CARBON BRUSHES, 5 POLES
   POTENTIOMETER TYPE: 1 SLIDER, 1M cycle/SEMI INDIRECT DRIVE
   AMPLIFIER TYPE: DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DIMENSIONS: 64x33x73mm(2.52x1.30x2.90in)
   WEIGHT: 363g(12.8oz)
   BALL BEARING: MR148 x2
   GEAR MATERIAL: ONE MGP1, 3 STEEL
   HORN GEAR SPLINE: 15 SEGMENTS/φ8.0
   SPLINED HORNS: INDUSTRIAL/1-MO
   CONNECTOR WIRE LENGTH: 250mm(9.84in)
   CONNECTOR WIRE GAUGE: SIGNAL – 21AWG(0.08X80)
   :POWER – 19AWG(0.08X120)
   GEAR TRAIN BACKLASH: 0.5° Max

2. ENVIRONMENTAL TEST
   TEMPERATURE TEST: -20°C TO +60°C (-4°F TO +140°F)
   DURABILITY TEST: -
   VIBRATION: IEC – 60068 – 2 – 64
   SHORk: IEC – 60068 – 2 – 29
   Duration of the test in water: SPLASH
   EMC: CE

3. FEATURES
   HIGH RESPONSE DIGITAL AMPLIFIER WITH MOSFET DRIVE
   1M CYCLE LONG LIFE POTENTIOMETER
   DURABLE CHROMATE PLATED ALUMINUM CASE & STEEL GEARS WITH QUAD BALL BEARING
   SPLASH & DUST RESISTANCE

4. APPLICATIONS
   INDUSTRY, UAV, ROBOTICS & SPECIAL EFFECTS

HITeC RCD KOREA INC.
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