GENERAL SPECIFICATION OF
D840WP DIGITAL MEGA SCALE MULTI PURPOSE SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM: +PULSE WIDTH CONTROL 1500usec NEUTRAL
OPERATING VOLTAGE RANGE: 4.8V TO 7.4V
OPERATING TEMPERATURE RANGE: -20°C TO +60°C (-4°F TO +140°F)
TEST VOLTAGE: AT 4.8V AT 6.0V AT 7.4V
OPERATING SPEED: 0.17sec/60° 0.14sec/60° 0.11sec/60°
STALL TORQUE: 19.0kg.cm (265.31oz.in) 24.0kg.cm (335.13oz.in) 30.0kg.cm (418.91oz.in)
STANDING TORQUE: -
IDLE CURRENT: 30mA AT STOPPED 30mA AT STOPPED 30mA AT STOPPED
RUNNING CURRENT: 1100mA 1250mA 1600mA
STALL CURRENT: 5000mA 6000mA 9000mA
DEAD BAND WIDTH: 2usec 2usec 2usec
INPUT SIGNAL: +5.0V 1500usec ±400usec ±600usec WITH TRIM
OPERATING TRAVEL: ±40°/ONE SIDE PULSE TRAVELING 400usec
DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
OPERATING LIFE: -
MOTOR TYPE: CORED CARBON BRUSHES 5 POLES
POTENTIOMETER TYPE: INDIRECT DRIVE / 1M CYCLE LONG LIFE
AMPLIFIER TYPE: DIGITAL AMPLIFIER WITH MOSFET DRIVE
DIMENSIONS: 66.0x32.0x62.0mm (2.59x1.259x2.44in)
WEIGHT: 227g (8.00oz)
BALL BEARING: TWO MR148
GEAR MATERIAL: ONE METAL-KARBONITE, 4 STEEL
HORN GEAR SPLINE: 13 SEGMENT / φ7.7
SPLEDNED HORNS: 1 Metal & 2 Resins (Q-MIA, Q-XA & QIA)
CONNECTOR WIRE LENGTH: 300mm (11.81in)
Duration of the test in water: 1M / 30min (IP67)

2. FEATURES

PROGRAMMABLE HIGH RESPONSIVNE DIGITAL AMPLIFIER WITH MOSFET DRIVE
DURABLE STEEL GEARS WITH DUAL BALL BEARING
WATER & DUST RESISTANCE (IP67)
HEAT SINK FOR MOTOR

3. APPLICATIONS

AIRPLANE, GASOLIN CAR, INDUSTRY, UAV, ROBOTICS & SPECIAL EFFECTS

HITEC RCD KOREA INC.