



6911 Series

1-1/16 In. Dia. POTENTIOMETER ELEMENT ROTOR/WIPER KIT





STANDARD ELECTRICAL CHARACTERISTICS

RESISTANCES (±10%): ACTIVE ELECTRICAL ANGLE: ELECTRICAL CONTINUITY ANGLE: INDEPENDENT LINEARITY: END VOLTAGE: VOLTAGE RESOLUTION: OUTPUT SMOOTHNESS: RESISTANCE TEMP. COEFFICIENT: POWER RATING @ 70°C: WIPER CONTACT CURRENT: 1KΩ, 5KΩ, and 10kΩ 340° 344° MIN. ±0.5% 0.5% MAX. VIRTUALLY INFINITE 0.1% MAX. 400PPM/°C MAX. 1.25 WATT MAX. 10 MilliAmps MAX.

STANDARD MECHANICAL CHARACTERISTICS

MECHANICAL ROTATION: TOTAL WEIGHT (ELEMENT): WIRE LEAD LENGTH: ELEMENT OUTER DIAMETER: ELEMENT INNER DIAMETER: ROTOR OPERATING RADIUS: INSULATOR INSIDE DIAMETER: CONTINUOUS 1.25 Gm. MAX. 6.0 Inches NOMINAL 0.888±.005 Inch 0.186+.002/-.005 Inch 0.395 MAX. 0.127±.002 Inch

STANDARD ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE: ROTATIONAL OPERATING LIFE: -65°C To +125°C 100 x 10 REVÓLUTIONS MIN.

STANDARD MATERIALS OF CONSTRUCTION

RESISTANCE ELEMENT: GRIP-RING ROTOR: INSULATOR: ELECTRICAL CONTACTS:

LEADWIRES:

CO-MOLDED CONDUCTIVE PLASTIC HEAT-TREATED BERYLLIUM COPPER HIGH-TEMP. MOLDED PLASTIC MULTI-FINGER PRECIOUS METAL DIRECTLY WELDED TO ROTOR #30 AWG TYPE ET STRANDED WIRE TEFLON INSULATED (250V)

AVAILABLE OPTIONS

CUSTOM RESISTANCE VALUES (500 Ω TO 50k C) AND TOLERANCES AS LOW AS $\pm 5\%$

SPECIAL LINEARITIES AS LOW AS 0.2%, ABSOLUTE (INDEXED) OR INDEPENDENT OVER SPECIFIED REGIONS.

ADDITIONAL TAPS, CURRENT OR VOLTAGE

SPECIAL ELECTRICAL ANGLES UP TO 350° MAX.

SPECIAL WIRE LEADS OR CABLES

SPECIAL TERMINATIONS OR CONNECTORS

SPECIAL TRANSFER FUNCTIONS: NON-LINEAR OUTPUTS LOAD COMPENSATION TRIG, LOG, AND EXPONENTIAL OUTPUTS

SPECIAL ELEMENT DIMENSIONS OR FEATURES SUCH AS LOCATING NOTCHES, SCRIBE MARKS, CUSTOM SUBSTRATE SHAPES.

CUSTOM ROTOR OR INSULATOR DIMENSIONS AND FEATURES.

CUSTOM MARKING, IDENTIFICATION OR LOGO.

SPECIAL ENVIRONMENTAL CAPABILITES SUCH AS HIGH SHOCK AND VIBRATION.