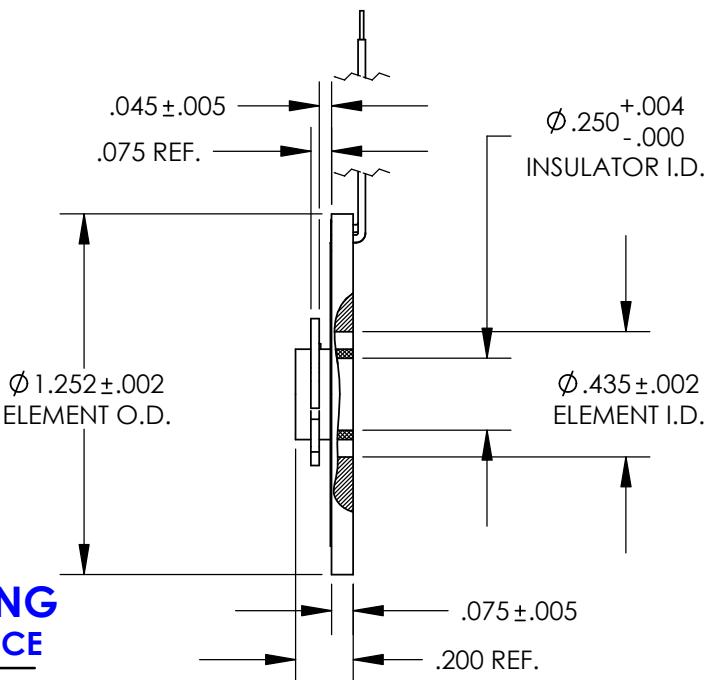
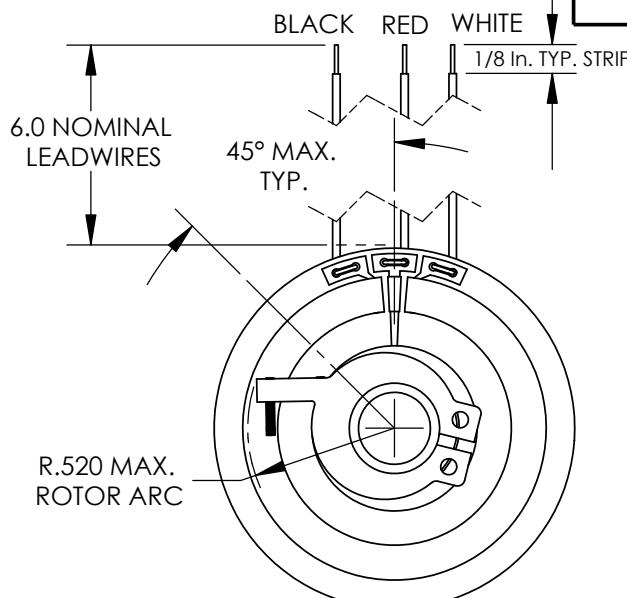




6915 Series

1-7/16 In. Dia. POTENTIOMETER ELEMENT ROTOR/WIPER KIT



STANDARD PRODUCT OFFERING

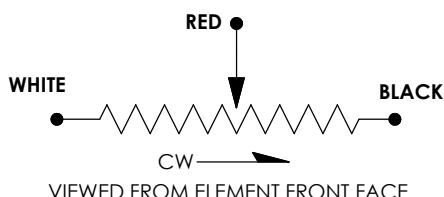
MS PART NUMBER RESISTANCE

6915-1000-030 $1\text{K}\Omega \pm 10\%$
6915-1002-030 $5\text{K}\Omega \pm 10\%$
6915-1003-030 $10\text{K}\Omega \pm 10\%$

STANDARD MODEL ELECTRICAL CHARACTERISTICS

RESISTANCE, 6915-1000-030:	1k Ω \pm 10%
6915-1002-030:	5k Ω \pm 10%
6915-1003-030:	10k Ω \pm 10%
ACTIVE ELECTRICAL ANGLE:	340°
ELECTRICAL CONTINUITY ANGLE:	344° MIN.
INDEPENDENT LINEARITY:	\pm 0.5%
END VOLTAGE:	0.5% MAX.
VOLTAGE RESOLUTION:	VIRTUALLY INFINITE
OUTPUT SMOOTHNESS:	0.1% MAX.
RESISTANCE TEMP. COEFFICIENT:	400PPM/ $^{\circ}$ C MAX.
POWER RATING @ 70 $^{\circ}$ C:	2.0 WATT MAX.
WIPER CONTACT CURRENT:	10 MilliAmps MAX

SCHEMATIC DIAGRAM



STANDARD MODEL MECHANICAL CHARACTERISTICS

MECHANICAL ROTATION:	CONTINUOUS
TOTAL WEIGHT (ELEMENT ONLY):	2.26 Gm. MAX.
WIRE LEAD LENGTH:	6.0 Inches NOMINAL
ELEMENT OUTER DIAMETER:	1.252±.005 Inch
ELEMENT INNER DIAMETER:	0.435+.002/-0.005 Inch
ROTOR OPERATING RADIUS:	0.520 MAX.
STANDARD ROTOR PART No:	6915-0000-060
INSULATOR INSIDE DIAMETER:	0.252±.002 Inch
INSULATOR LENGTH:	0.200+.000/-0.005
STANDARD INSULATOR PART No:	7040-0002-020

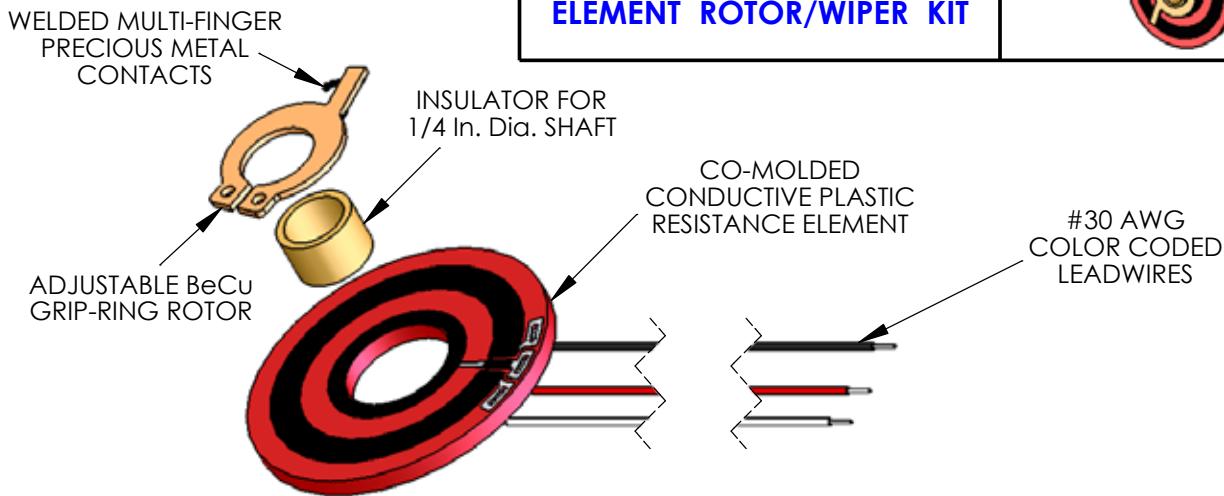
STANDARD MATERIALS OF CONSTRUCTION

RESISTANCE ELEMENT:	CO-MOLDED CONDUCTIVE PLASTIC
GRIP-RING ROTOR:	HEAT-TREATED BERYLLIUM COPPER
INSULATOR:	HIGH-TEMP. SPUN-CAST EPOXY
ELECTRICAL CONTACTS:	MULTI-FINGER PRECIOUS METAL
LEADWIRES:	DIRECTLY WELDED TO ROTOR #30 AWG TYPE ET STRANDED WIRE TEFLON INSULATED (250V)

STANDARD ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE: -65°C To \pm 125°C
ROTATIONAL OPERATING LIFE: 100 x 10 REVOLUTIONS MIN.

6915 Series
**1-7/16 In. Dia. POTENTIOMETER
ELEMENT ROTOR/WIPER KIT**



**STANDARD
ELECTRICAL CHARACTERISTICS**

RESISTANCES ($\pm 10\%$):	1k Ω , 5k Ω , and 10k Ω
ACTIVE ELECTRICAL ANGLE:	340°
ELECTRICAL CONTINUITY ANGLE:	344° MIN.
INDEPENDENT LINEARITY:	$\pm 0.5\%$
END VOLTAGE:	0.5% MAX.
VOLTAGE RESOLUTION:	VIRTUALLY INFINITE
OUTPUT SMOOTHNESS:	0.1% MAX.
RESISTANCE TEMP. COEFFICIENT:	400PPM/ $^{\circ}$ C MAX.
POWER RATING @ 70 $^{\circ}$ C:	2.0 WATTS MAX.
WIPER CONTACT CURRENT:	10 MilliAmps MAX.

**STANDARD
MECHANICAL CHARACTERISTICS**

MECHANICAL ROTATION:	CONTINUOUS
TOTAL WEIGHT (ELEMENT):	2.26 Gm. MAX.
WIRE LEAD LENGTH:	6.0 Inches NOMINAL
ELEMENT OUTER DIAMETER:	1.252 \pm .005 Inch
ELEMENT INNER DIAMETER:	0.435 \pm .002/-0.005 Inch
ROTOR OPERATING RADIUS:	0.520 MAX.
INSULATOR INSIDE DIAMETER:	0.252 \pm .002 Inch

**STANDARD
ENVIRONMENTAL CHARACTERISTICS**

OPERATING TEMP. RANGE:	-65 $^{\circ}$ C To +125 $^{\circ}$ C
ROTATIONAL OPERATING LIFE:	100 x 10 ⁶ REVOLUTIONS MIN.

**STANDARD
MATERIALS OF CONSTRUCTION**

RESISTANCE ELEMENT:	CO-MOLDED CONDUCTIVE PLASTIC
GRIP-RING ROTOR:	HEAT-TREATED BERYLLIUM COPPER
INSULATOR:	HIGH-TEMP. MOLDED PLASTIC
ELECTRICAL CONTACTS:	MULTI-FINGER PRECIOUS METAL
	DIRECTLY WELDED TO ROTOR
LEADWIRES:	#30 AWG TYPE ET STRANDED WIRE
	TEFLON INSULATED (250V)

AVAILABLE OPTIONS

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

SPECIAL LINEARITIES AS LOW AS 0.15%, 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 CAPABILITIES SUCH AS HIGH SHOCK AND VIBRATION.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Measurement Specialties](#):

[6915-1002-030](#) [6915-1003-030](#)