

SPECIFICATIONS

ELECTRICAL

RESISTANCE: $2k\Omega \pm 10\%$
 ELECTRICAL ANGLE: $340^\circ \pm 1^\circ$
 CONTINUITY ANGLE: 352° MIN
 LINEARITY: 0.5% INDEPENDENT
 MINIMUM VOLTAGE: 0.1% MAX
 RESOLUTION: VIRTUALLY INFINITE
 OUTPUT SMOOTHNESS: 0.1% MAX
 RESISTANCE TEMPERATURE COEFFICIENT: 400 PPM/ $^\circ$ C MAX
 POWER RATING: 1.5 WATT MAX @ 70° C,
 DERATED TO 0.0 WATT @ 125° C
 WIPER CONTACT CURRENT: 10 MILLIAMPS MAX
 DIELECTRIC STRENGTH: 1000 VRMS @ 60 Hz
 INSULATION RESISTANCE: 100 MEG OHMS @ 500 VDC

MECHANICAL

ROTATION: CONTINUOUS 360°
 WEIGHT, (1 GANG): 2.0 OZ MAX
 MECH BACKLASH: $<0.1^\circ$
 START TORQUE: 0.3 OZ-IN MAX,
 RUNNING TORQUE: 0.2 OZ-IN MAX
 PILOT RUNOUT: 0.001 T.I.R.
 SHAFT RUNOUT: 0.001 T.I.R.
 SHAFT END PLAY: 0.003 MAX
 SHAFT RADIAL PLAY: 0.001 T.I.R.
 LATERAL RUNOUT: 0.002 T.I.R.

ENVIRONMENTAL

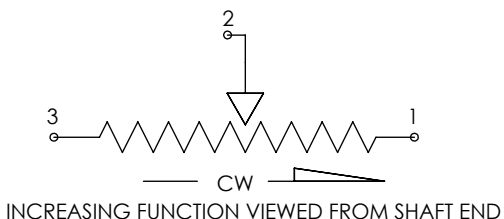
OPERATING TEMPERATURE: -65° C TO $+125^\circ$ C
 ROTATIONAL LIFE: 100 MILLION REVOLUTIONS MIN
 DITHER LIFE: 50 MILLION CYCLES @ 60HZ OVER 5°
 SHOCK: SAWTOOTH 100G PEAK PER MIL-STD-202
 METHOD 213, TEST CONDITION I
 VIBRATION: HIGH FREQ; SWEPT 10 - 2000HZ, 15G PEAK
 PER MIL-STD-202 TEST CONDITION B

MATERIALS

HOUSING AND COVER: ANODIZED ALUMINUM
 SHAFT: PASSIVATED CENTERLESS GROUND SST
 BEARINGS: PRECISION MINIATURE BALL
 ROTOR: BERYLLIUM COPPER
 CONTACTS: MULTI-FINGER PRECIOUS METAL
 ELEMENT: CO-MOLDED CONDUCTIVE PLASTIC
 TERMINALS: GOLD PLATED BRASS

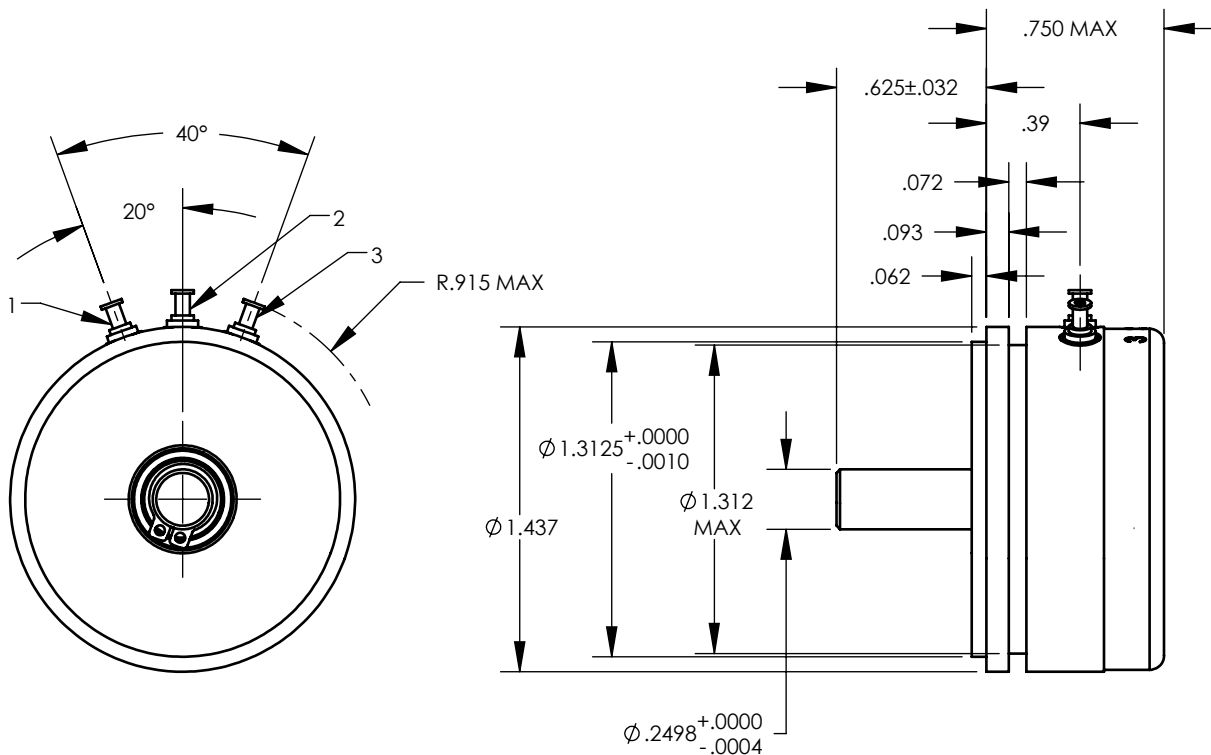
NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS ARE IAW MIL-PRF-39023



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CHANGE HISTORY				
REV	DESCRIPTION	DATE	DRAWN	APPROVD
A	RELEASE	10/7/92		DARB
B0	ECN 2825-SSC	5/19/10	JDD	PDC



DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR $\pm 2^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$ FOUR PLACE DECIMAL $\pm .0005$		NAME	DATE	SPECTRUM SENSORS & CONTROLS GRASS VALLEY, CALIFORNIA
MATERIAL		J. DAVIS	5/19/10	
FINISH		CHECKED	5/21/10	POTENTIOMETER
DO NOT SCALE DRAWING		ENG APPR.	P. CARDEN	
		MFG APPR.		
		Q.A.		
Information in this box is for Engineering Reference Only				SIZE
				CAGE CODE
				DWG. NO.
				A 5W885 6015-1001-030
				SHEET 1 OF 1