

SPECIFICATIONS

ELECTRICAL

RESISTANCE: $5K\Omega \pm 10\%$
 ELECTRICAL ANGLE: $340^\circ \pm 2^\circ$
 CONTINUITY ANGLE: 355°MIN
 LINEARITY: $\pm .5\%$ INDEPENDENT
 MINIMUM VOLTAGE: 0.1% MAX
 RESOLUTION: VIRTUALLY INFINITE
 OUTPUT SMOOTHNESS: 0.1% MAX
 RESISTANCE TEMPERATURE COEFFICIENT: 400 PPM/ $^\circ\text{C}$ MAX
 POWER RATING: 1.0 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) 1.0 OZ MAX
 MECH BACKLASH: $<0.1^\circ$
 START TORQUE: 0.25 OZ-IN MAX,
 RUNNING TORQUE: 0.20 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

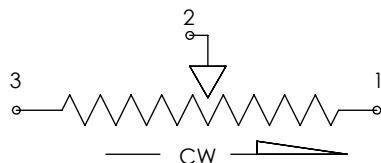
OPERATING TEMPERATURE: -65°C TO $+125^\circ\text{C}$
 ROTATIONAL LIFE: 50 MILLION CYCLES MIN
 DITHER LIFE: 50 MILLION CYCLES @ 60HZ OVER 5°
 SHOCK: SAWTOOTH 100G PEAK PER MIL-STD-202
 METHOD 213, TEST CONDITION I
 VIBRATION: HIGH FREQ; SWEPT 10 - 2000HZ, 15G PEAK
 PER MIL-STD-202 TEST CONDITION B

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

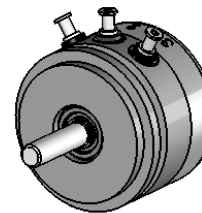
UNLESS OTHERWISE SPECIFIED

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

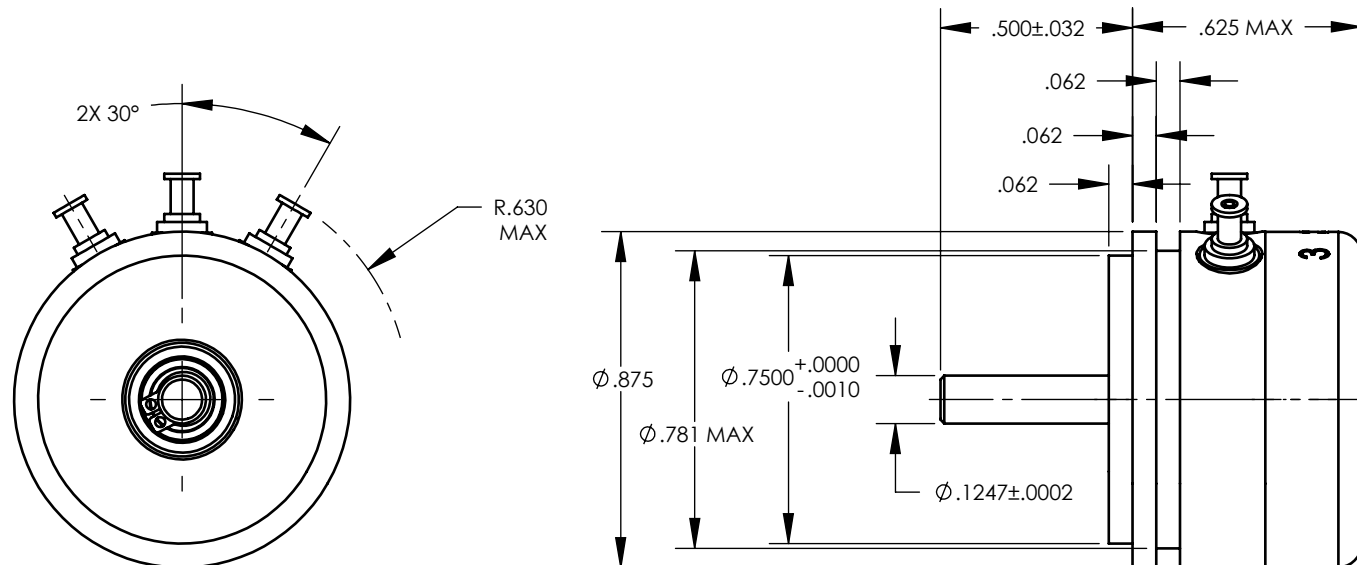


INCREASING FUNCTION VIEWED FROM SHAFT END

CUSTOMER:	CATALOG
CUSTOMER DWG/REV:	



CHANGE HISTORY				
REV	DESCRIPTION	DATE	DRAWN	APPROVED
A	RELEASE	10/7/92		DARB
A1	ECN 3993-SSC	5/29/12		EML
B0	ECN 4677-SSC	8/27/13	JDD	EML



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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 ANGULAR $\pm 2^\circ$
 TWO PLACE DECIMAL $\pm .01$
 THREE PLACE DECIMAL $\pm .005$
 FOUR PLACE DECIMAL $\pm .0005$

MATERIAL

NOTED

FINISH

NOTED

DO NOT SCALE DRAWING

NAME	DATE
DRAWN D. TREE	10/7/92
CHECKED	
ENG APPR.	
MFG APPR.	
Q.A.	

Information in this box is for
 Engineering Reference Only

measurement
 SPECIALTIES™

POTENTIOMETER

SIZE CAGE CODE DWG. NO.
A 5W885 6009-1002-030

SHEET 1 OF 1

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