

SPECIFICATIONS

ELECTRICAL

RESISTANCE: 1KΩ ±10%  
ELECTRICAL ANGLE: 325° ±1°  
CONTINUITY ANGLE: 350°MIN  
LINEARITY: ±1.0% INDEPENDENT  
MINIMUM VOLTAGE: 0.1% MAX  
RESOLUTION: VIRTUALLY INFINITE  
OUTPUT SMOOTHNESS: 0.1% MAX  
RESISTANCE TEMPERATURE COEFFICIENT: ±400 PPM/°C MAX  
POWER RATING: 0.5 WATT MAX @ 70°C,  
DERATED TO 0.0 WATT @ 125°C  
WIPER CONTACT CURRENT: 10 MILLIAMPS MAX  
DIELECTRIC STRENGTH: 500 VRMS @ 60 Hz  
INSULATION RESISTANCE: 100 MEG OHMS @ 500 VDC

MECHANICAL

ROTATION: CONTINUOUS 360°  
WEIGHT: NOT SPECIFIED  
MECH BACKLASH: <0.1°  
START TORQUE: 0.2 OZ-IN MAX  
RUNNING TORQUE: .15 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.

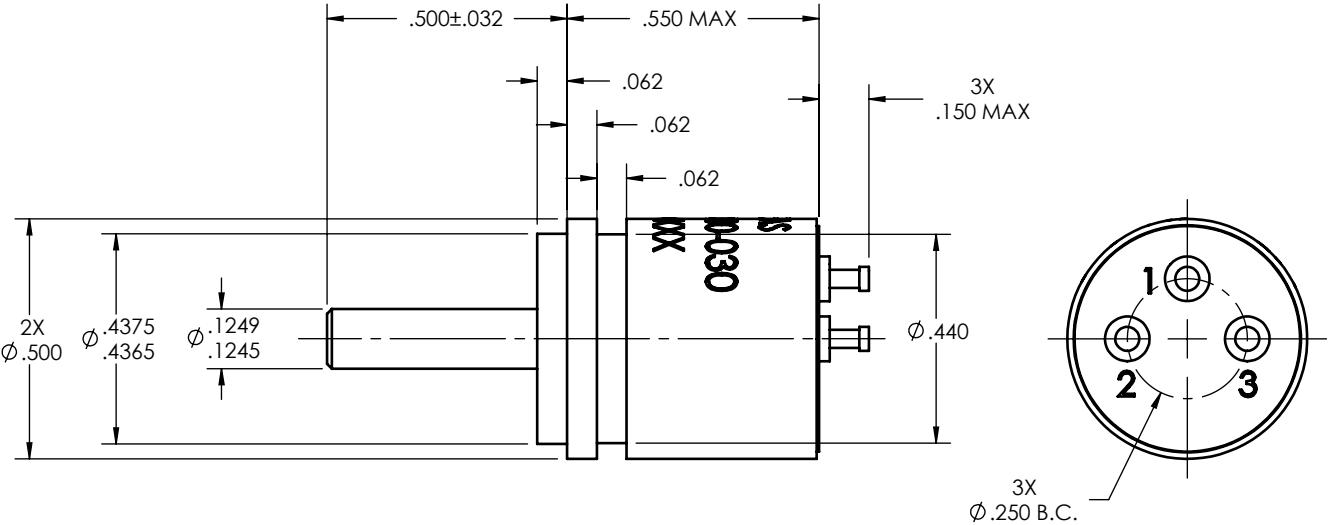
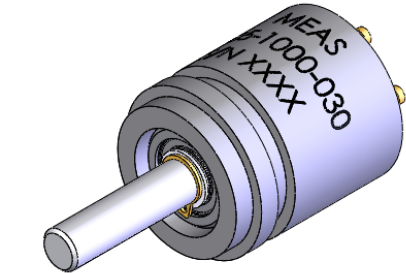
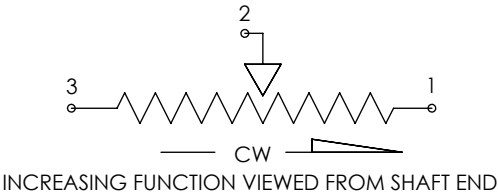
ENVIRONMENTAL


OPERATING TEMPERATURE: -65°C TO +125°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 STAINLESS STEEL  
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



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			DRAWN	D. TREE	10/12/92			
			CHECKED	DARB	10/12/92			
			ENG APPR.					
			MFG APPR.					
DIMENSIONS ARE IN INCHES  TOLERANCES: ANGULAR ±2°  TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 FOUR PLACE DECIMAL ±.0005	MATERIAL	NOTED	Information in this box is for Engineering Reference Only		<b>POTENTIOMETER</b>			
	FINISH						NOTED	
	DO NOT SCALE DRAWING							
							CAGE CODE	DWG. NO.
							5W885	6005-1000-030
						SHEET 1 OF 1		