

**SPECIFICATIONS**

**ELECTRICAL**

RESISTANCE VALUES \_\_\_\_\_ 1K,2K,5K,10K,20K,50K,100K OHMS(10 TURN)  
 500,1K,2K,5K,10K,20K,(3 AND 5 TURNS)  
 ±10%  
 RESISTANCE TOLERANCE \_\_\_\_\_ SEE CHART  
 INDEPENDENT LINEARITY \_\_\_\_\_ <0.015%(10 TURN), <0.05%(3 AND 5 TURN)  
 OUTPUT SMOOTHNESS \_\_\_\_\_ <3%(10 TURN), <5%(3 AND 5 TURN)  
 CONTACT VARIATION \_\_\_\_\_ SEE CHART  
 POWER RATING \_\_\_\_\_ SEE CHART  
 ELECTRICAL ANGLE \_\_\_\_\_ SEE CHART  
 END VOLTAGE \_\_\_\_\_ 0.3 % MAX.  
 RESOLUTION \_\_\_\_\_ ESSENTIALLY INFINITE  
 INSULATION RESISTANCE \_\_\_\_\_ 1000 MEGOHMS MIN. @ 500VDC  
 DIELECTRIC STRENGTH \_\_\_\_\_ 1000 VAC MIN.

**MECHANICAL**

MECHANICAL ANGLE \_\_\_\_\_ SEE CHART  
 STOP STRENGTH \_\_\_\_\_ 48 OZ.IN.  
 STARTING TORQUE \_\_\_\_\_ LESS THAN 0.7 OZ.INCHES  
 ROTATIONAL LIFE \_\_\_\_\_ 10,000,000 (10TURN)  
 5,000,000 (3 AND 5 TURN)  
 WEIGHT \_\_\_\_\_ 0.8 OZ.

**ENVIRONMENTAL**

OPERATING TEMPERATURE \_\_\_\_\_ -55° TO +105°C  
 TEMPERATURE COEFFICIENT \_\_\_\_\_ ±100 P.P.M./°C  
 VIBRATION \_\_\_\_\_ 10HZ TO 2,000HZ 15G  
 MOISTURE RESISTANCE \_\_\_\_\_ 40°C95%RH 120 HOURS  
 SHOCK \_\_\_\_\_ 50G 11ms

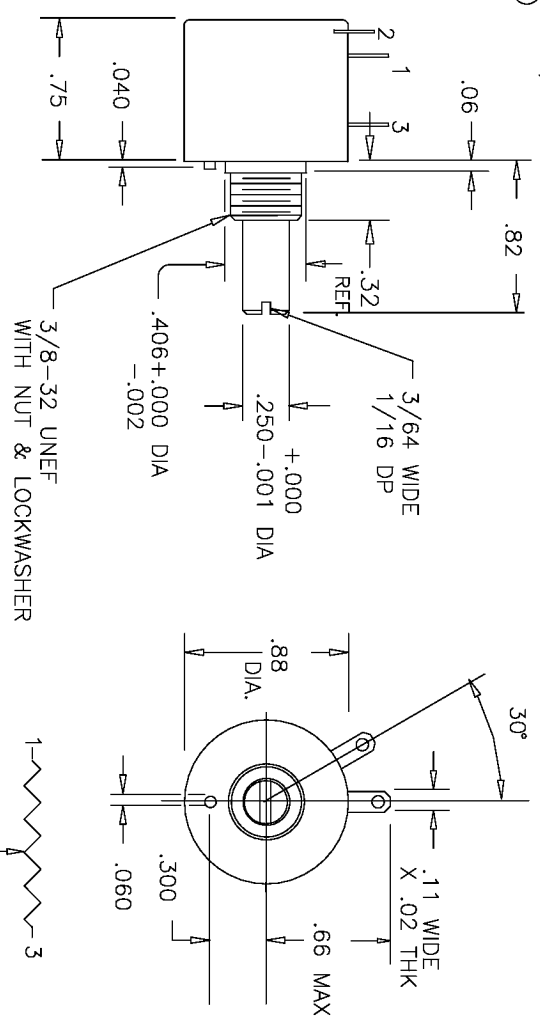
**NON-STANDARDS AVAILABLE**

MULTI-GANGED UP TO 6 SECTIONS  
 REAR SHAFT EXTENSION  
 FRONT SHAFT MODIFICATIONS  
 SERVO MOUNTING  
 NON STANDARD LINEARITY

**MATERIALS**

HOUSING-----HIGH TEMP. THERMO PLASTIC  
 TERMINALS-----GOLD PLATED BRASS  
 BUSHING-----BRASS  
 SHAFT-----STAINLESS STEEL  
 RESISTIVE ELEMENT-----HYBRID

REV.	BY	DATE	PART NO.
D	BT	03-05	MH22B
			OUTPUT SMOOTHNESS WAS .15



NO. OF TURNS	MODEL	ELECTRICAL ANGLE	MECHANICAL ANGLE	LINEARITY INDEPENDENT	POWER RATING
3	MH22B-3	1080°±5°	1080°+10°/0°	±0.5%	1 WATT
5	MH22B-5	1800°±5°	1800°+10°/-0°	±0.35%	1 WATT
10	MH22B-10	3600°±5°	3600°+10°/-0°	±0.25%	2 WATT

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TITLE  
 HYBRID MULTI-TURN  
 POTENTIOMETER

ETI SYSTEMS CARLSBAD CALIFORNIA

**TOLERANCES**  
 XX = +/- .010" FRACT. = +/- 1/64"  
 XXX = +/- .005" ANGLES = +/- 1/2°  
 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SCALE NONE  
 DATE: 10-1-88  
 BY G.L.S.  
 APPRVD BT  
 CODE IDENT: 194777

PART NO. MH22B