

**SPECIFICATIONS**

**ELECTRICAL**

RESISTANCE RANGE \_\_\_\_\_ SEE BELOW  
 RESISTANCE TOLERANCE ±10%  
 LINEARITY(INDEPENDENT) 3&5 TURN(±.35%) 10&20 TURN(±.25%)  
 RESOLUTION \_\_\_\_\_ ESSENTIALLY INFINITE  
 END RESISTANCE 1 OHM OR .1%  
 TRAVEL \_\_\_\_\_ SEE TABLE  
 OUTPUT SMOOTHNESS .05%(3&5TURN).015%(10,15&20TURN)  
 POWER RATING \_\_\_\_\_ SEE TABLE  
 INSULATION RESISTANCE 100 MEGOHMS MIN. AT 1000VDC  
 DIELECTRIC STRENGTH 1000 VAC AT SEA LEVEL  
 CONTACT VARIATION <5%(3&5TURN) <3%(10,15&20TURN) CRV

**MECHANICAL**

NUMBER OF TURNS \_\_\_\_\_ SEE TABLE  
 TRAVEL \_\_\_\_\_ SEE TABLE  
 TORQUE,ROTATIONAL 0.7 IN.OZ. MAX. .406-.002DIA.  
 LIFE,ROTATIONAL \_\_\_\_\_ SEE TABLE  
 STOP STRENGTH 94 IN.OZ.  
 RADIAL PLAY \_\_\_\_\_ .002 TIR  
 END PLAY \_\_\_\_\_ .005

**ENVIRONMENTAL**

OPERATING TEMPERATURE -55°C TO +105°C  
 TEMPERATURE COEFFICIENT ±100 PPM/°C  
 VIBRATION 10HZ TO 2000HZ 15G  
 SHOCK 50G 11MS  
 MOISTURE RESISTANCE 40°C 95%RH 120 HOURS

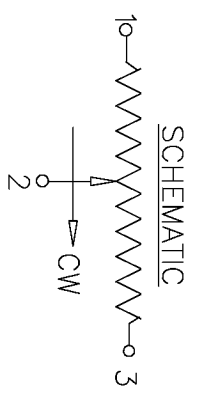
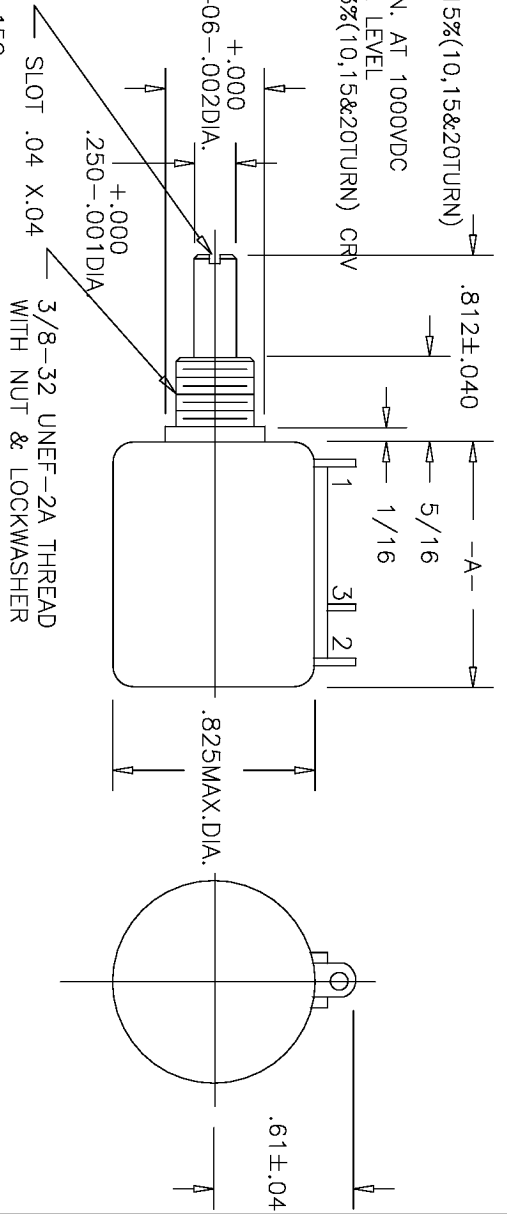
**OPTIONS**

SERVO MOUNTING  
 SPECIAL RESISTANCES AND LINEARITIES  
 MODIFIED SHAFTS  
 EXTRA TAPS  
 HIGH TORQUE  
 EXTRA GANGS(UP TO 6)

**STANDARD RESISTANCE RANGE**

= 3 TURN, 1K,5K,10K,20K  
 5 TURN, 1K,5K,10K,20K,50K  
 10 TURN,2K,5K,10K,20K,50K,100K  
 15 TURN,2K,5K,10K,20K,50K,100K  
 20 TURN,2K,5K,10K,20K,50K,100K

**HYBRID RESISTANCE ELEMENT**



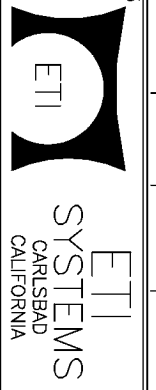
TABLED SPECIFICATIONS

DASH NO.	NO.OF TURNS	MECHANICAL ANGLE+10°-0°	ELECTRICAL ANGLE ±5°	POWER RATING	ROTATIONAL LIFE	DIM -A-	WEIGHT
-3	3	1080°	1080°	0.7 WATT	5,000,000	.71	1.4 OZ.
-5	5	1800°	1800°	1.0 WATT	5,000,000	.71	1.4 OZ.
-10	10	3600°	3600°	2.0 WATT	10,000,000	1.00	1.7 OZ.
-15	15	5400°	5400°	2.0 WATT	10,000,000	1.29	2.4 OZ.
-20	20	7200°	7200°	2.0 WATT	10,000,000	1.58	2.5 OZ.

**TOLERANCES**

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

SCALE: NONE  
 DATE: 11-10-86  
 BY: \_\_\_\_\_  
 APPR/V/D: \_\_\_\_\_  
 CODE IDENT: 19477



TITLE: HYBRID MULTI-TURN POTENTIOMETER

PART NO. MH20B