

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE _____ SEE BELOW
 RESISTANCE TOLERANCE $\pm 10\%$
 LINEARITY(INDEPENDENT) 3&5 TURN($\pm 35\%$) 10&20 TURN($\pm 25\%$)
 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 $+105^{\circ}\text{C}$
 TEMPERATURE COEFFICIENT ± 100 PPM/ $^{\circ}\text{C}$
 VIBRATION 10HZ TO 2000HZ 15G
 SHOCK 50G 11MS
 MOISTURE RESISTANCE 40 $^{\circ}\text{C}$ 95%RH 120 HOURS

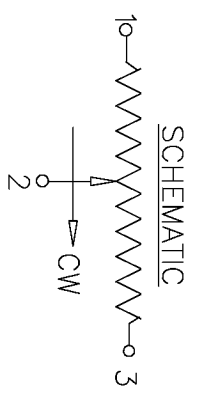
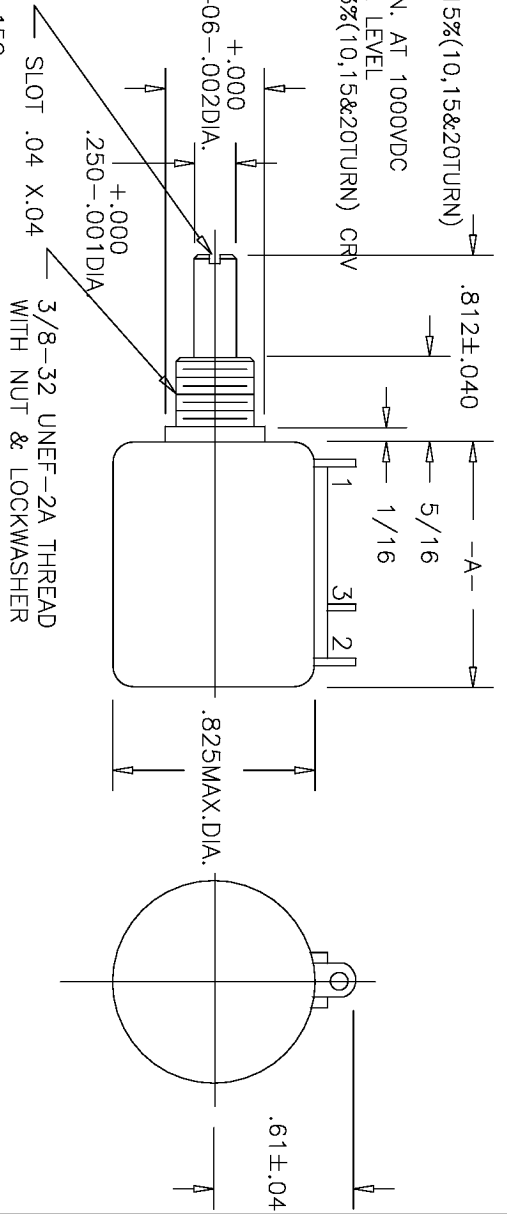
OPTIONS

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



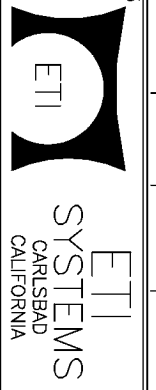
TABLED SPECIFICATIONS

DASH NO.	NO.OF TURNS	MECHANICAL ANGLE $\pm 10^{\circ}$ - 0°	ELECTRICAL ANGLE $\pm 5^{\circ}$	POWER RATING	ROTATIONAL LIFE	DIM -A-	WEIGHT
-3	3	1080 $^{\circ}$	1080 $^{\circ}$	0.7 WATT	5,000,000	.71	1.4 OZ.
-5	5	1800 $^{\circ}$	1800 $^{\circ}$	1.0 WATT	5,000,000	.71	1.4 OZ.
-10	10	3600 $^{\circ}$	3600 $^{\circ}$	2.0 WATT	10,000,000	1.00	1.7 OZ.
-15	15	5400 $^{\circ}$	5400 $^{\circ}$	2.0 WATT	10,000,000	1.29	2.4 OZ.
-20	20	7200 $^{\circ}$	7200 $^{\circ}$	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

Mouser Electronics

Authorized Distributor

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[ETI Systems:](#)

[MH20B-10-10K](#) [MH20B-15-10K](#)