

**SPECIFICATIONS**

**ELECTRICAL**

RESISTANCE RANGE ..... SEE CHART  
 RESISTANCE TOLERANCE ..... ±.3%  
 LINEARITY(INDEPENDENT) ..... ±0.25%  
 RESOLUTION ..... SEE CHART  
 END RESISTANCE ..... 1 OHM OR .1%  
 TRAVEL ..... SEE TABLE  
 NOISE ..... 100 OHM MAX.  
 POWER RATING ..... SEE TABLE  
 INSULATION RESISTANCE ..... 100 MEGOHMS AT 1000VDC  
 DIELECTRIC STRENGTH ..... 1000 VAC AT SEA LEVEL

**MECHANICAL**

NUMBER OF TURNS ..... SEE TABLE  
 TRAVEL ..... SEE TABLE  
 TORQUE,ROTATIONAL ..... 0.7 IN.OZ. MAX.  
 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 ..... SEE CHART  
 VIBRATION ..... 10HZ TO 2000HZ 15G  
 SHOCK ..... 50G 11MS  
 MOISTURE RESISTANCE ..... 40°C 95%RH 240 HOURS

**NOTE:**

WIREWOUND RESISTANCE ELEMENT

REV.	BY	DATE	PART NO.
E	BT	5-24 93	MW20B



**RESOLUTION CHART (%)**

DASH NO.	10	20	50	100	200	500	1K	2K	5K	10K	20K	50K	100K
-3	.15	.12	.15	.11	.10	.08	.07	.06	.05	.04	.03	.02	.01
-5	.10	.08	.10	.10	.08	.06	.05	.04	.03	.02	.02	.01	.01
-10	.06	.04	.06	.05	.03	.03	.02	.02	.02	.01	.01	.01	.01

**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°	.7WATTS	600,000	.71	1.4 OZ.
-5	5	1800°	1800°	1 WATT	1,000,000	.71	1.4 OZ.
-10	10	3600°	3600°	2 WATTS	2,000,000	1.00	1.7 OZ.

**OPTIONS**  
 SERVO MOUNTING  
 SPECIAL RESISTANCES AND LINEARITIES  
 MODIFIED SHAFTS  
 EXTRA TAPS  
 HIGH TORQUE  
 EXTRA GANGS(UP TO 6)2nd GANG ADD 1.087"LGTH,  
 TRACKING 2X LIN.(MAX), PHASED AT CCW

**TOLERANCES**

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

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**TITLE:**  
 MULTI-TURN  
 POTENTIOMETER



**ETI SYSTEMS**  
 CARLSBAD CALIFORNIA

**PART NO.**  
 MW20B