

REV.	BY	DATE	APPRVL.	P/N
B	BT	2-24-99		MW22B-1 WAS ±0.25%

ELECTRICAL SPECIFICATIONS

RESISTANCE RANGE _____ 100 TO 100,000 OHMS
RESISTANCE TOLERANCE _____ ± 5%
INDEPENDENT LINEARITY _____ SEE CHART
POWER RATING _____ SEE CHART
ELECTRICAL NOISE _____ 100 OHMS MAX.
ELECTRICAL ANGLE _____ SEE CHART
END RESISTANCE _____ 1 OHM OR 1% MAX.
RESOLUTION _____ SEE CHART
INSULATION RESISTANCE _____ 1000 MEGOHMS MIN. @ 500VDC
DIELECTRIC STRENGTH _____ 1000 VAC MIN.

MECHANICAL

MECHANICAL ANGLE _____ SEE CHART
STOP STRENGTH _____ 48 OZ./IN.
STARTING TORQUE _____ 1.4 OZ. IN. MAX.
ROTATIONAL LIFE _____ 1,000,000 REVOLUTIONS
WEIGHT _____ 0.8 OZ.

ENVIRONMENTAL

OPERATING TEMPERATURE _____ -55° TO +105°C
TEMPERATURE COEFFICIENT _____ SEE CHART
VIBRATION _____ 10Hz TO 2,000Hz 15G
MOISTURE RESISTANCE _____ 40°C95%RH 120 HOURS
SHOCK _____ 50G 11ms

MATERIALS

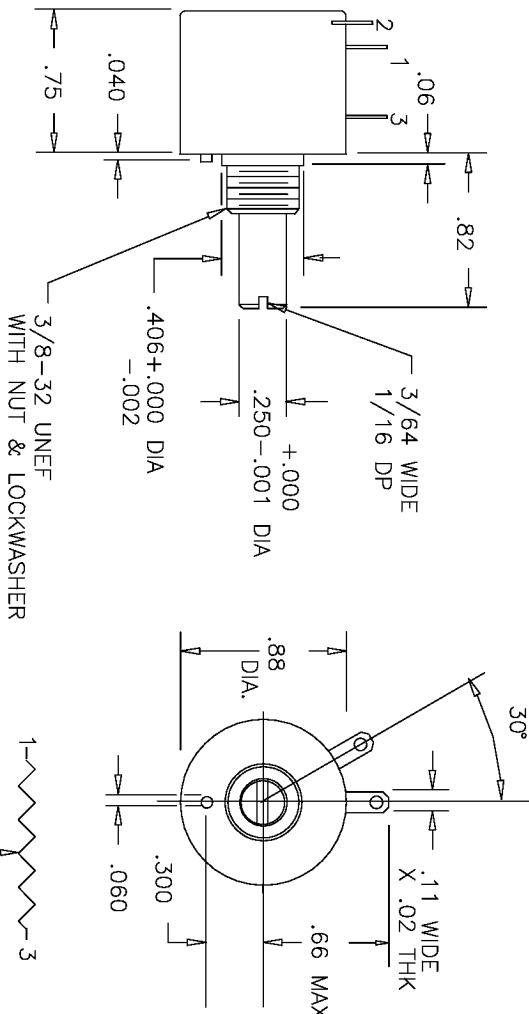
HOUSING----- HIGH TEMP. THERMO PLASTIC
TERMINALS----- GOLD PLATED BRASS
BUSHING----- BRASS
SHAFT ----- STAINLESS STEEL
RESISTIVE ELEMENT----- WIREWOUND

NON-STANDARDS AVAILABLE

MULTI-GANGED UP TO 6 SECTIONS
REAR SHAFT EXTENSION
FRONT SHAFT MODIFICATIONS

RESOLUTION CHART

	50	100	200	500	1K	2K	5K	10K	20K	50K	100K
RESISTANCE (OHMS)											
MW22B-1 TURN	0.60	0.50	0.40	0.30	0.25	0.20	0.20	0.16			
MW22B-3 TURN	.15	.12	.090	0.070	.056	.058	.045	.036	.030	.027	
MW22B-5 TURN	.10	.08	.064	.050	.040	.042	.032	.026	.021	.019	
MW22B-10 TURN	.06	.05	.040	.030	.025	.020	.020	.016	.013	.010	.009
TEMPERATURE COEFFICIENT PPM/°C	80					20					



MODEL	ELECTRICAL ANGLE	MECHANICAL ANGLE	LINEARITY INDEPENDENT	POWER RATING
MW22B-1	360°±5°	360°+10°/-0°	±0.5%	0.5WATT
MW22B-3	1080°±5°	1080°+10°/-0°	±0.5%	1 WATT
MW22B-5	1800°±5°	1800°+10°/-0°	±0.3%	1 WATT
MW22B-10	3600°±5°	3600°+10°/-0°	±0.25%	2 WATT

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

SCALE	DATE: 4-18-85
NONE	BY BT
APPRVD	

CODE IDENT: 19477

ETI SYSTEMS
CARLSBAD CALIFORNIA

TITLE
MULTI-TURN
POTENTIOMETER

PART NO.
MW22B