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PART THERE OF MAY BE MADE EXCEPT BY
WRITTEN PERMISSION.

REV.	BY	DATE	APPRVL.	P/N
E	BT	9/23/96	BT	SP22E

SPECIFICATIONS

ELECTRICAL

RESISTANCE VALUES _____ 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K
RESISTANCE TOLERANCE _____ $\pm 10\%$
LINEARITY (INDEPENDENT) _____ $\pm 1\%$
ELECTRICAL ANGLE _____ $320^{\circ} \pm 5^{\circ}$
END RESISTANCE _____ 0.2% MAX.
RESOLUTION _____ ESSENTIALLY INFINITE
INSULATION RESISTANCE _____ 1000 MEGOHMS @ 500 VDC
DIELECTRIC STRENGTH _____ 500 VAC
POWER RATING _____ 1 WATT
CONTACT RESIS. VARIATION _____ BELOW 2% C.R.V.
OUTPUT SMOOTHNESS _____ LESS THAN 0.1%

MECHANICAL

NO. OF TURNS _____ 1
MECHANICAL ROTATION _____ $320 \pm 5^{\circ}$
ROTATIONAL LIFE _____ 10,000,000 TURNS
STOP STRENGTH _____ 84 OZ.IN.MIN.
TORQUE _____ BELOW 0.8 OZ.IN.
WEIGHT _____ APPROX 0.7 OZ.

ENVIRONMENTAL

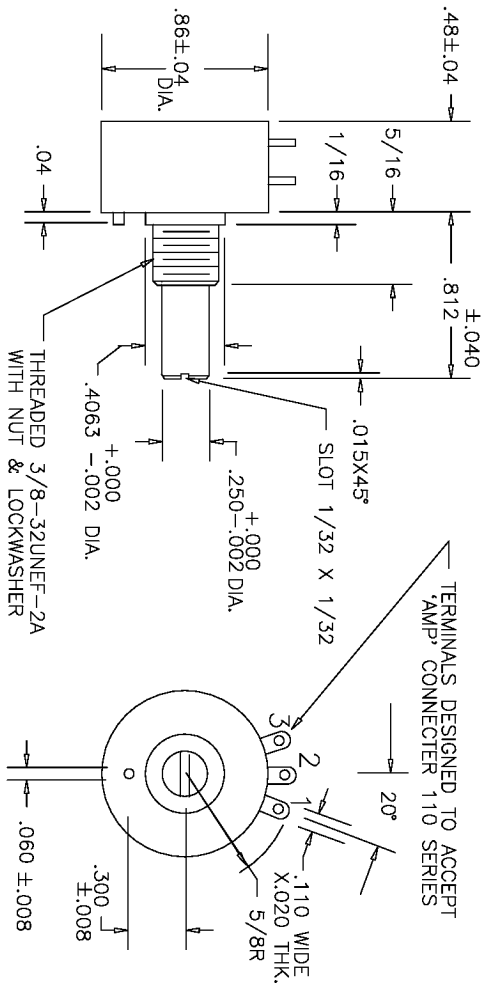
OPERATING TEMPERATURE _____ -55°C TO $+105^{\circ}\text{C}$
TEMPERATURE COEFFICIENT _____ ± 400 PPM/ $^{\circ}\text{C}$
VIBRATION _____ 10HZ TO 2000HZ 15G
SHOCK _____ 50G 11ms
MOISTURE RESISTANCE _____ 40°C 95%RH 120 HOURS

MATERIALS

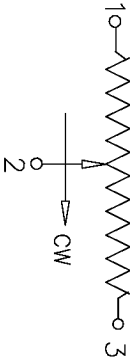
HOUSING----- HIGH TEMP. THERMO PLASTIC
TERMINALS----- GOLD PLATED BRASS
BUSHING----- BRASS
SHAFT----- STAINLESS STEEL
ELEMENT----- CONDUCTIVE PLASTIC

OPTIONAL FEATURES

SHAFT MODIFICATIONS
REAR SHAFT
CENTER TAP
MULTI-GANGED UP TO 6 SECTIONS
O'RING SHAFT SEAL
SPECIAL ANGLES



SCHEMATIC

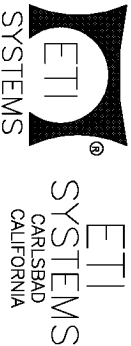


TOLERANCES

XX = +/- .010" FRACT. = +/- 1/64"
XXX = +/- .005" ANGLES = +/- 1/2°

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SCALE	DATE:	8-4-86
NONE	BY	
APPRVD	BT	
CODE IDENT:	19477	



TITLE
SINGLE TURN
POTENTIOMETER

PART NO.

SP22E