

THIS DOCUMENT CONTAINS PROPRIETARY DATA
OF POLARIS INDUSTRIAL ENTERPRISES, INC. NO
DISCLOSURE, REPRODUCTION, OR USE OF ANY
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

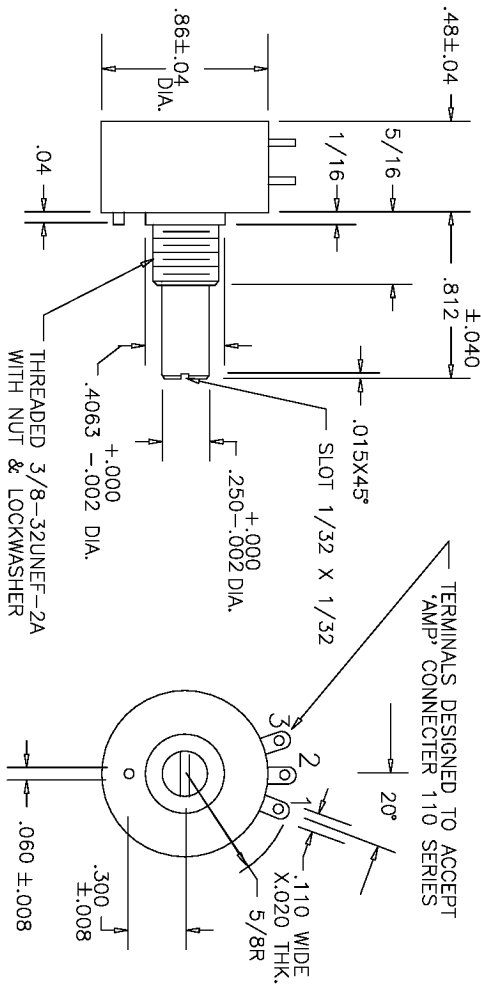
OPERATING TEMPERATURE _____ -55°C TO $+105^\circ\text{C}$
TEMPERATURE COEFFICIENT _____ ± 400 PPM/ $^\circ\text{C}$
VIBRATION _____ 10HZ TO 2000HZ 15G
SHOCK _____ 50G 11ms
MOISTURE RESISTANCE _____ 40°C 95%RH 120 HOURS

MATERIALS

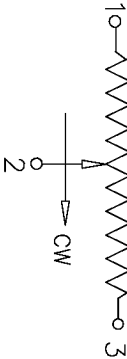
HOUSING----- HIGH TEMP. THERMO PLASTIC
TERMINALS----- GOLD PLATED BRASS
BUSHING----- BRASS
SHAFT----- STAINLESS STEEL
ELEMENT----- CONDUCTIVE PLASTIC

OPTIONAL FEATURES

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



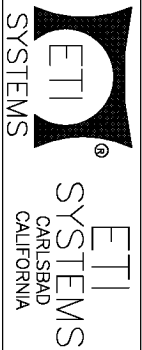
SCHEMATIC



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	
APPR'D	BT	
CODE IDENT:	19477	



TITLE
SINGLE TURN
POTENTIOMETER

PART NO.
SP22E