

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 \_\_\_\_\_ ±10%  
 LINEARITY(INDEPENDENT) \_\_\_\_\_ ±1%  
 ELECTRICAL ANGLE \_\_\_\_\_ 320°±5°  
 END RESISTANCE \_\_\_\_\_ 0.2% MAX.  
 RESOLUTION \_\_\_\_\_ ESSENTIALLY INFINITE  
 INSULATION RESISTANCE \_\_\_\_\_ 1000MEG OHMS @ 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±5°  
 ROTATIONAL LIFE \_\_\_\_\_ 10,000,000 TURNS  
 STOP STRENGTH \_\_\_\_\_ 84 OZ.IN.MIN.  
 TORQUE \_\_\_\_\_ BELOW 0.8 OZ.IN.  
 WEIGHT \_\_\_\_\_ APPROX 0.7 OZ.

ENVIRONMENTAL

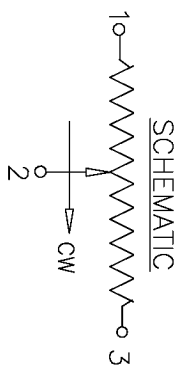
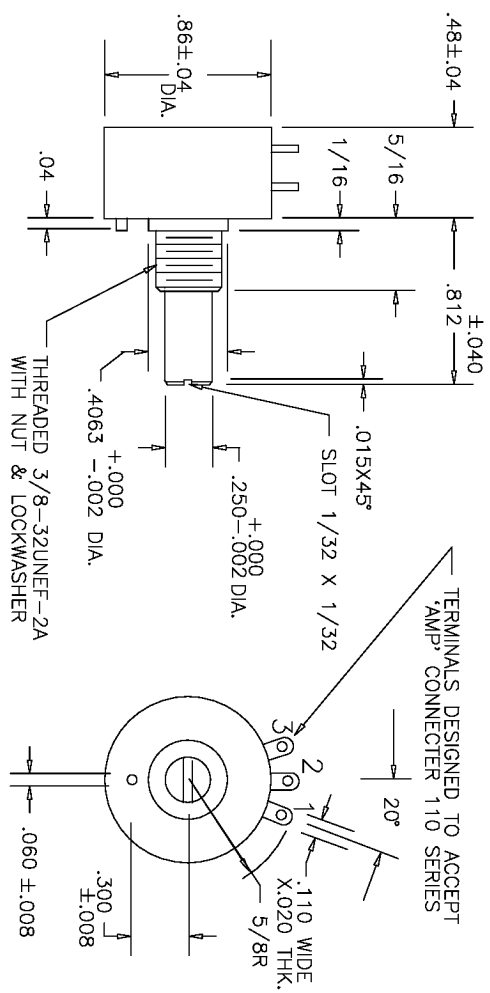
OPERATING TEMPERATURE \_\_\_\_\_ -55°C TO +105°C  
 TEMPERATURE COEFFICIENT \_\_\_\_\_ ±400 PPM/°C  
 VIBRATION \_\_\_\_\_ 10HZ TO 2000HZ 15G  
 SHOCK \_\_\_\_\_ 50G 11ms  
 MOISTURE RESISTANCE \_\_\_\_\_ 40°C 95%RH 120 HOURS

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

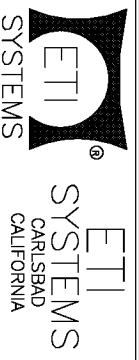


TOLERANCES

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

SCALE	DATE:
NONE	8-4-86
APPRV'D	BY
BT	

CODE IDENT: 19477



TITLE  
 SINGLE TURN  
 POTENTIOMETER

PART NO.  
 SP22E