

**SPECIFICATIONS**

REV. BY DATE PART NO. **SO30B**

D PD 3-12 92 PART NO. SO30B WAS SO30.

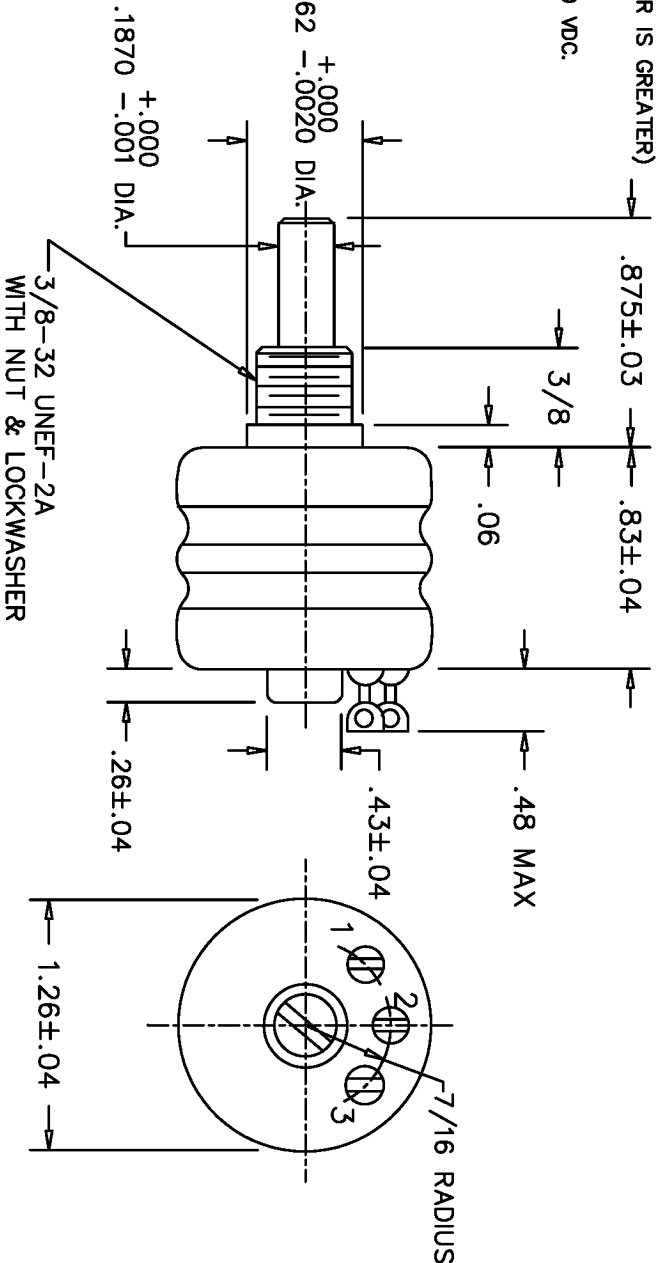
**ELECTRICAL**  
 RESISTANCE RANGE ----- 50 OHMS TO 20K OHMS  
 RESISTANCE TOLERANCE ----- ± 10%  
 LINEARITY(INDEPENDENT) ----- ± 1%  
 ELECTRICAL ANGLE ----- 345±.5°  
 END RESISTANCE ----- .2% OR 20HMS (WHICHEVER IS GREATER)  
 ELECTRICAL NOISE(ENR) ----- 100 OHMS  
 RESOLUTION ----- SEE CHART  
 INSULATION RESISTANCE ----- 100 MEGOHMS MIN. AT 1000 VDC.  
 DIELECTRIC STRENGTH ----- 1000 VAC MIN  
 POWER RATING ----- 0.75WATTS

**MECHANICAL**  
 NO OF TURNS ----- 1  
 MECHANICAL ANGLE ----- CONTINUOUS  
 ROTATIONAL LIFE ----- 200,000  
 STOP STRENGTH ----- N/A  
 STARTING TORQUE ----- 4.2 OZ. IN.  
 WEIGHT ----- 1.5 OZ.  
 SHAFT RADIAL PLAY ----- .005 IN. T.I.R. MAX  
 SHAFT END PLAY ----- .005 IN. T.I.R. MAX

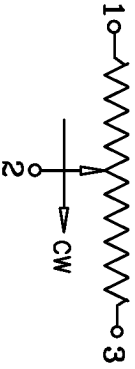
**ENVIRONMENTAL**  
 OPERATING TEMPERATURE ----- -20°C TO +60°C  
 TEMPERATURE COEFFICIENT ----- SEE CHART  
 VIBRATION ----- 10HZ TO 2000HZ 10G  
 SHOCK ----- 30G 11MS  
 MOISTURE RESISTANCE ----- 40°C 95%RH 2000 HOURS  
 SUBMERSIBLE ----- TO 15 PSI

**MATERIALS**  
 HOUSING ----- METAL  
 SHAFT ----- STAINLESS STEEL  
 BUSHING ----- PLATED BRASS  
 TERMINALS ----- GLASS HEADERS  
 RESISTANCE ELEMENT ----- WIREWOUND

**OPTIONAL FEATURES**  
 SHAFT MODIFICATIONS  
 REAR SHAFT  
 SPECIAL ANGLES  
 CENTER TAP  
 MULTI-GANGS



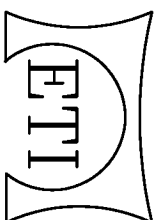
**SCHEMATIC**



**RESOLUTION CHART**

RESISTANCE	50	100	200	500	1K	2K	5K	10K	20K
RESOLUTION	.38	.33	.28	.25	.20	.14	.10	.09	.06
TEMPERATURE COEFFICIENT	80	80	80	20	20	20	20	20	20

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**ETI SYSTEMS**  
 CARLSBAD CALIFORNIA

**NOTES:**  
 SCALE: NONE  
 DATE: 4-16-75  
 BY:  
 APRVD BT  
 CODE IDENT: 19477

**TITLE**  
 OIL FILLED  
 SINGLE TURN  
 POTENTIOMETER

**PART NO.**  
 SO30B

**TOLERANCES**  
 XX = .010 FRACTIONS = ?/64  
 XXX = ±.005 ANGLES = ±1/2°  
 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.