

SPECIFICATIONS

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REV.	BY	DATE	P/N
C	BT	2/7/97	ADDED SUBMERSIBLE NOTE

SOP 30B

ELECTRICAL

RESISTANCE RANGE ----- 1K TO 100K
 RESISTANCE TOLERANCE ----- ± 10%
 LINEARITY (INDEPENDENT) ----- ± 1%
 ELECTRICAL ANGLE ----- 280 ± 5°
 END RESISTANCE ----- 2% OR 20HMS (WHICHEVER IS GREATER)
 CONTACT RES. VARIATION ----- BELOW 2%
 RESOLUTION ----- ESSENTIALLY INFINITE
 INSULATION RESISTANCE ----- 100 MEGOHMS MIN. AT 1000 VDC.
 DIELECTRIC STRENGTH ----- 1000 VAC MIN
 POWER RATING ----- 1.0 WATTS
 OUTPUT SMOOTHNESS ----- BELOW 0.1% OF INPUT VOLTAGE

MECHANICAL

NO. OF TURNS ----- 1
 MECHANICAL ANGLE ----- CONTINUOUS
 ROTATIONAL LIFE ----- 10,000,000
 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

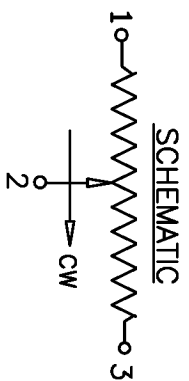
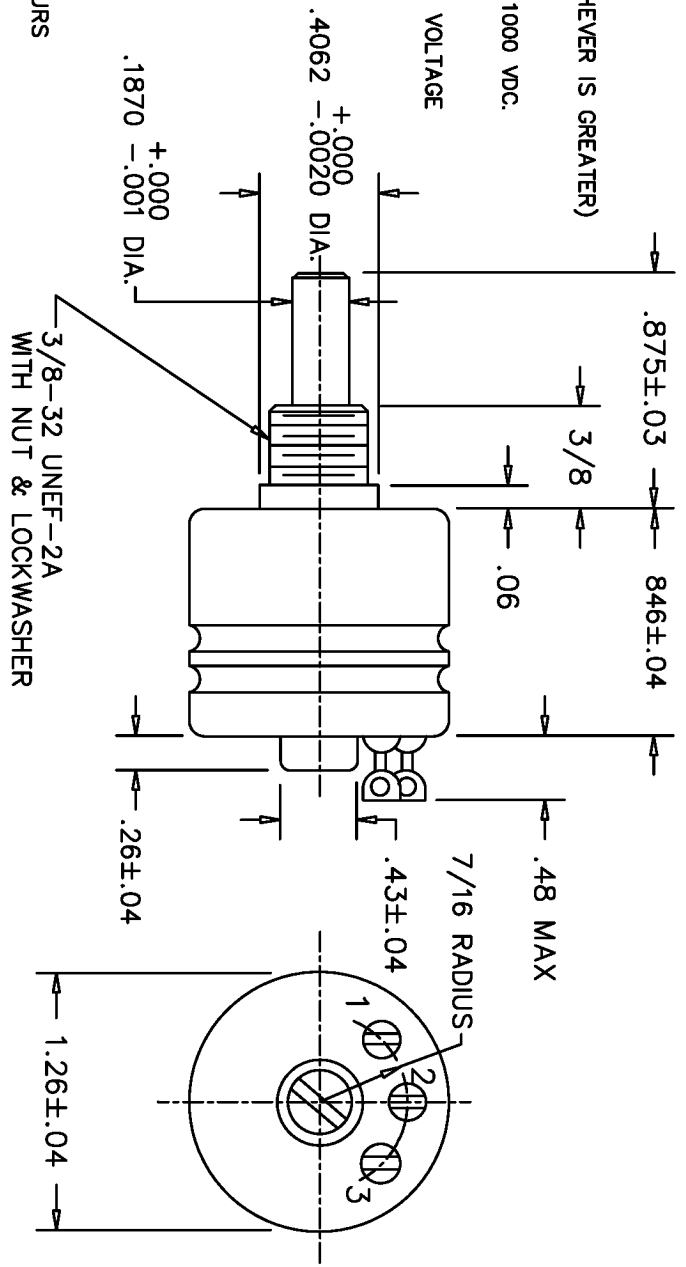
OPERATING TEMPERATURE ----- -30°C TO +60°C
 VIBRATION ----- 10HZ TO 2000HZ 10G
 SHOCK ----- 30G 11MS
 MOISTURE RESISTANCE ----- 40°C 95%RH 2000 HOURS
 SUBMERSIBLE ----- TO 15 PSI

MATERIALS

HOUSING ----- METAL
 SHAFT ----- STAINLESS STEEL
 BUSHING ----- PLATED BRASS
 TERMINALS ----- GLASS HEADERS
 RESISTANCE ELEMENT ----- CONDUCTIVE PLASTIC

OPTIONAL FEATURES

SHAFT MODIFICATIONS
 REAR SHAFT
 SPECIAL ANGLES
 CENTER TAP
 2 GANGS



USED ON

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

SCALE	DATE: 7-20-89
BY	
APPRVD	BT
CODE IDENT: 19477	



FTI SYSTEMS
 CARLSBAD
 CALIFORNIA

TITLE
 OIL FILLED
 SINGLE TURN
 POTENTIOMETER

PART NO.
 SOP 30B