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				C	DWS	4/17/98		SP12B
CONTACT RESIS. VARIATION WAS 2%./ ROTATIONAL LIFE WAS 10 MILLION.								

SPECIFICATIONS

ELECTRICAL

RESISTANCE VALUES _____ 500,1K,2K,5K,10K,20K,50K,100K
RESISTANCE TOLERANCE _____ $\pm 15\%$
LINEARITY(INDEPENDENT) _____ $\pm 2\%$
ELECTRICAL ANGLE _____ $300^{\circ} \pm 5^{\circ}$
END RESISTANCE _____ $0.2\% \text{ MAX.}$
RESOLUTION _____ ESSENTIALLY INFINITE
INSULATION RESISTANCE _____ 1000 MEGOHMS @ 500 VDC
DIELECTRIC STRENGTH _____ 500 V.A.C.
POWER RATING _____ .2 WATTS
CONTACT RESIS. VARIATION _____ BELOW $3\% \text{ C.R.V.}$
OUTPUT SMOOTHNESS _____ LESS THAN 0.1%

MECHANICAL

NO. OF TURNS _____ 1
MECHANICAL ROTATION _____ CONTINUOUS
ROTATIONAL LIFE _____ 5,000,000 TURNS
STOP STRENGTH _____ N/A
TORQUE _____ 0.3 OZ.IN.
WEIGHT _____ 8 GRAMS

ENVIRONMENTAL

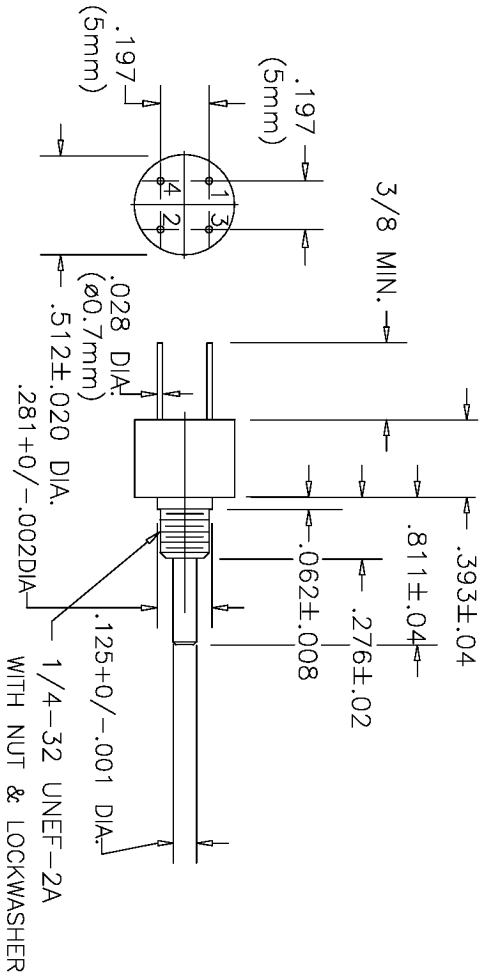
OPERATING TEMPERATURE _____ $-55^{\circ}\text{C TO } +105^{\circ}\text{C}$
TEMPERATURE COEFFICIENT _____ $\pm 400 \text{ PPm}/^{\circ}\text{C}$
VIBRATION _____ 10HZ TO 2000HZ 15G
SHOCK _____ 50G
MOISTURE RESISTANCE _____ $40^{\circ}\text{C } 95\% \text{RH } 120 \text{ HOURS}$

MATERIALS

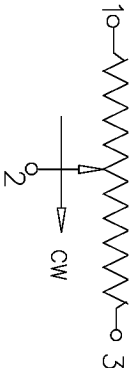
HOUSING _____ BRASS PLATED
SHAFT _____ STAINLESS STEEL
TERMINALS _____ GOLD PLATED BRASS
RESISTANCE ELEMENT _____ CONDUCTIVE PLASTIC

OPTIONAL FEATURES

SHAFT MODIFICATIONS
SERVO MOUNT
CENTER TAP
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 NONE		DATE: 12-30-89		BY		BT		CODE IDENT: 19477		ETI SYSTEMS CARLSBAD CALIFORNIA		TITLE SINGLE TURN POTENITOMETER		PART NO. SP12B	
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