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REV.	BY	DATE	APPRVL.	P/N
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 \_\_\_\_\_ ±15%  
 LINEARITY (INDEPENDENT) \_\_\_\_\_ ±2%  
 ELECTRICAL ANGLE \_\_\_\_\_ 300°±5°  
 END RESISTANCE \_\_\_\_\_ 0.2% 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% 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

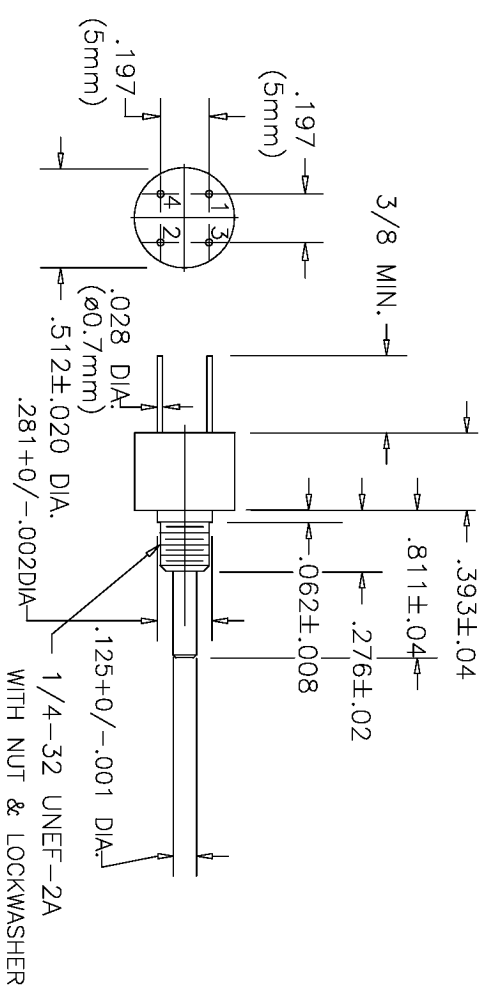
OPERATING TEMPERATURE \_\_\_\_\_ -55°C TO +105°C  
 TEMPERATURE COEFFICIENT \_\_\_\_\_ ±400 PPm/°C  
 VIBRATION \_\_\_\_\_ 10HZ TO 2000HZ 15G  
 SHOCK \_\_\_\_\_ 50G  
 MOISTURE RESISTANCE \_\_\_\_\_ 40°C 95%RH 120 HOURS

MATERIALS

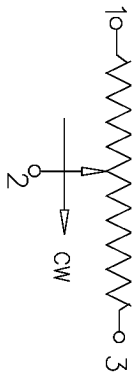
HOUSING \_\_\_\_\_ BRASS PLATED  
 SHAFT \_\_\_\_\_ STAINLESS STEEL  
 TERMINALS \_\_\_\_\_ GOLD PLATED BRASS  
 RESISTANCE ELEMENT \_\_\_\_\_ CONDUCTIVE PLASTIC

OPTIONAL FEATURES

SHAFT MODIFICATIONS  
 SERVO MOUNT  
 CENTER TAP  
 O-RING SHAFT SEAL  
 SPECIAL ANGLES

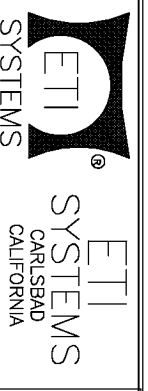


SCHEMATIC



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

SCALE	DATE: 12-30-89
NONE	BY
CODE IDENT: 19477	APPRV'D BT



TITLE  
 SINGLE TURN  
 POTENTIOMETER

PART NO.  
 SP12B

# Mouser Electronics

Authorized Distributor

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