

SPECIFICATIONS

ELECTRICAL

RESISTANCE VALUES _____ 1K,2K,5K,10K,20K,50K,100K
RESISTANCE TOLERANCE _____ $\pm 10\%$
LINEARITY(INDEPENDENT) _____ $\pm 1\%$
ELECTRICAL ANGLE _____ $320^\circ \pm 5^\circ$
END RESISTANCE _____ $0.2\% \text{ MAX.}$
RESOLUTION _____ ESSENTIALLY INFINITE
INSULATION RESISTANCE _____ 1000MEG OHMS @1000 VDC
DIELECTRIC STRENGTH _____ 1000 VAC
POWER RATING _____ 1 WATT
CONTACT RESIS. VARIATION _____ BELOW $2\% \text{ C.R.V.}$
OUTPUT SMOOTHNESS _____ LESS THAN 0.1%

MECHANICAL

NO OF TURNS _____ 1
MECHANICAL ROTATION _____ $320 + 10^\circ - 0^\circ$
ROTATIONAL LIFE _____ 20,000,000 TURNS
STOP STRENGTH _____ N/A
TORQUE _____ BELOW 0.3 OZ.IN.
WEIGHT _____ 1 OZ.

ENVIRONMENTAL

OPERATING TEMPERATURE _____ $-55^\circ\text{C TO} +125^\circ\text{C}$
TEMPERATURE COEFFICIENT _____ $\pm 400 \text{ PPM}/^\circ\text{C}$
VIBRATION _____ 10HZ TO 2000HZ 15G
SHOCK _____ 50G
MOISTURE RESISTANCE _____ $40^\circ\text{C } 95\% \text{RH } 120 \text{ HOURS}$

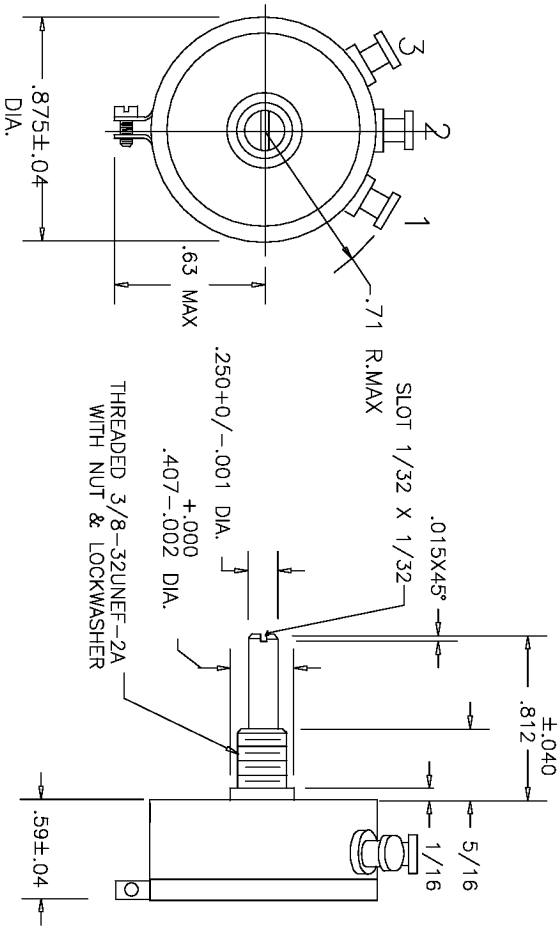
MATERIALS

HOUSING _____ ANODIZED ALUMINUM ,BLACK
SHAFT _____ STAINLESS STEEL
TERMINALS _____ GOLD PLATED BRASS
RESISTANCE ELEMENT _____ CONDUCTIVE PLASTIC

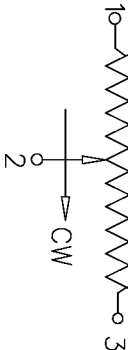
OPTIONAL FEATURES

SHAFT MODIFICATIONS
REAR SHAFT
CENTER TAP
O'RING SHAFT SEAL
BUSHING MOUNT
SPECIAL ANGLES
MULTIPLE SECTIONS

REV.	BY	DATE	PART NO.	SP22B
B	BT	11-6 95	ADDED MECHANICAL STOPS	



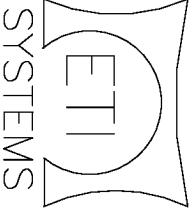
SCHEMATIC



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TITLE

SINGLE TURN
POTENTIOMETER



CARLSBAD
CALIFORNIA

PART NO.

SP22B

TOLERANCES

XX = .010 FRACTIONS = $?/64$
XXX = $\pm .005$ ANGLES = $\pm 1/2^\circ$

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Mouser Electronics

Authorized Distributor

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[SP22B-NS-1K](#) [SP22B-3349-1K](#)