

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE-----500 TO 100,000 OHMS
RESISTANCE TOLERANCE-----±15%
LINEARITY INDEPENDENT-----±1.5%
POWER RATING-----1.0 WATTS
ELECTRICAL ANGLE-----320±5°
END RESISTANCE-----LESS THAN 1 OHM
RESOLUTION-----ESSENTIALLY INFINITE
OUTPUT SMOOTHNESS-----BELOW 0.1% AGAINST INPUT VOLTAGE
CONTACT RESISTANCE VARIATION-----BELOW 2%
INSULATION RESISTANCE-----100MEGOHMS @ 500VDC MIN.
DIELECTRIC STRENGTH-----500 VAC

MECHANICAL

MECHANICAL ANGLE-----320±5°
ROTATIONAL TORQUE-----0.7 OZ.IN.
SHAFT END PLAY-----.005 MAX.
TEMPERATURE COEFFICIENT-----±400 PPM/°C
WEIGHT,APPROX.-----1.1 OZ.

ENVIRONMENTAL

OPERATING TEMPERATURE----- -55°C TO +105°C
TEMPERATURE COEFFICIENT----- ±400 P.P.M/°C
VIBRATION----- 10HZ TO 2000HZ 15G
SHOCK----- 50G 11MS
MOISTURE RESISTANCE----- 40°C 95%RH 120 HOURS

NON-STANDARDS AVAILABLE

REAR SHAFT EXTENTION
FRONT SHAFT MODIFICATIONS
CENTER TAP
SPECIAL ELECTRICAL AND MECHANICAL ANGLES

MATERIALS

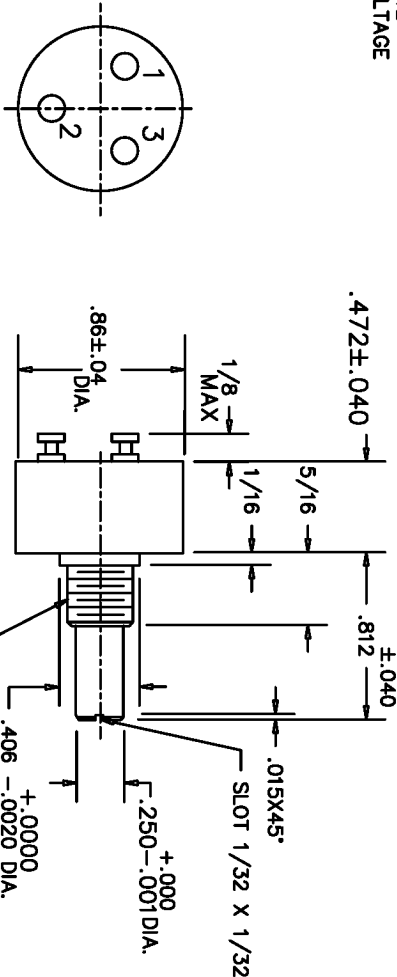
HOUSING-----BRASS,PLATED
TERMINALS-----GOLD PLATED BRASS
BUSHING-----BRASS
SHAFT-----STAINLESS STEEL
ELEMENT-----CONDUCTIVE PLASTIC

CONDUCTIVE PLASTIC ELEMENT

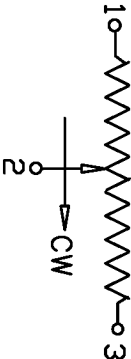
TOLERANCES

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

REV.	BY	DATE	PART NO.
B	BT	10-5 87	REDRAWN
C	BT	5-4-01	406 WAS .4063



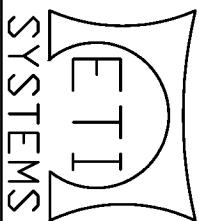
SCHEMATIC



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TITLE

SINGLE TURN
POTENTIOMETER



CARLSBAD
SYSTEMS
CALIFORNIA

PART NO.

SP22D

Mouser Electronics

Authorized Distributor

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[SP22D-1K](#)