

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

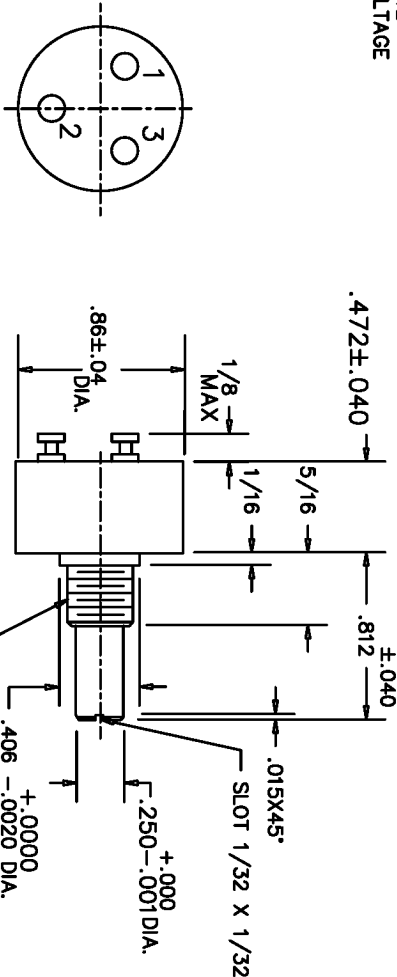
HOUSING-----BRASS,PLATED  
TERMINALS-----GOLD PLATED BRASS  
BUSHING-----BRASS  
SHAFT-----STAINLESS STEEL  
ELEMENT-----CONDUCTIVE PLASTIC

CONDUCTIVE PLASTIC ELEMENT

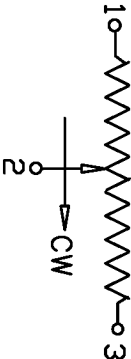
TOLERANCES

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



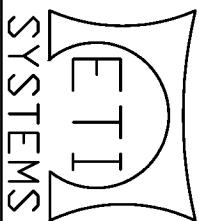
SCHEMATIC



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TITLE

SINGLE TURN  
POTENTIOMETER



CARLSBAD  
SYSTEMS  
CALIFORNIA

PART NO.

SP22D