

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

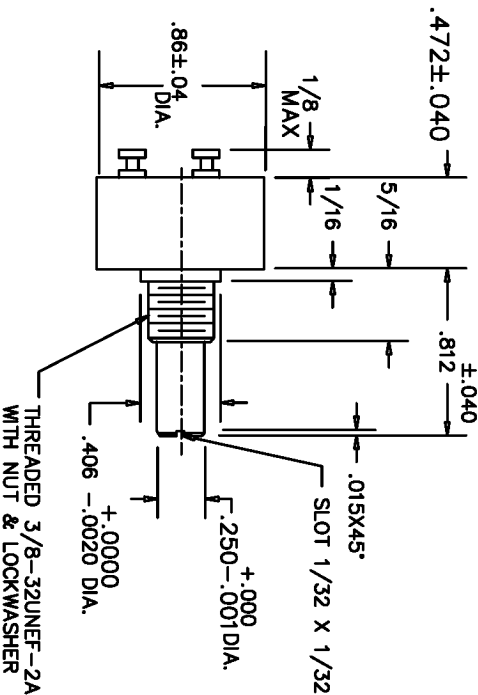
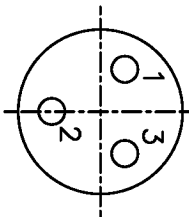
NON-STANDARDS AVAILABLE

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

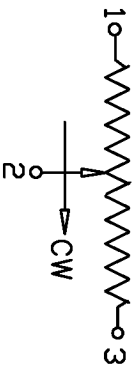
MATERIALS

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

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



SCHEMATIC



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CONDUCTIVE PLASTIC ELEMENT

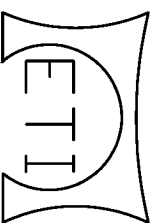
|       |         |
|-------|---------|
| SCALE | NONE    |
| DATE  | 7-12-83 |
| BY    |         |

TOLERANCES

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

TITLE

SINGLE TURN  
 POTENTIOMETER



CARLSBAD  
 SYSTEMS  
 CALIFORNIA

PART NO.

SP22D