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|                                                                                                                                                                                    |  |  |  | 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

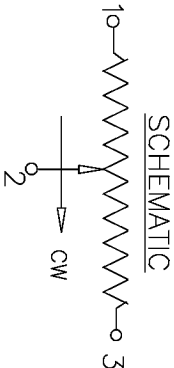
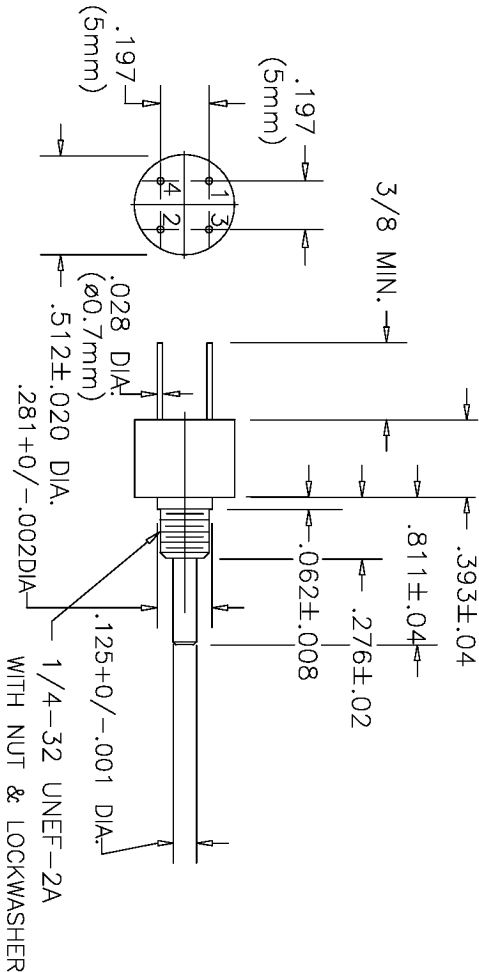
OPERATING TEMPERATURE \_\_\_\_\_ -55°C TO +105°C  
TEMPERATURE COEFFICIENT \_\_\_\_\_ ±400 PPm/°C  
VIBRATION \_\_\_\_\_ 10HZ TO 2000HZ 15G  
SHOCK \_\_\_\_\_ 50G  
MOISTURE RESISTANCE \_\_\_\_\_ 40°C 95%RH 120 HOURS

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



|                                                                                                                                              |  |                                                       |  |                   |  |                                    |  |                                       |  |                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|--|-------------------|--|------------------------------------|--|---------------------------------------|--|-------------------|--|
| TOLERANCES<br>XX = +/- .010" FRACT. = +/- 1/64"<br>XXX = +/- .005" ANGLES = +/- 1/2"<br>ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. |  | SCALE<br>NONE<br>DATE: 12-30-89<br>BY<br>APPRVD<br>BT |  | CODE IDENT: 19477 |  | ETI SYSTEMS<br>CARLSBAD CALIFORNIA |  | TITLE<br>SINGLE TURN<br>POTENITOMETER |  | PART NO.<br>SP12B |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|--|-------------------|--|------------------------------------|--|---------------------------------------|--|-------------------|--|