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PART THERE OF MAY BE MADE EXCEPT BY  
WRITTEN PERMISSION.

| REV. | BY | DATE    | APPRVL. | P/N   |
|------|----|---------|---------|-------|
| E    | BT | 9/23/96 | BT      | SP22E |

SPECIFICATIONS

ELECTRICAL

|                          |                                      |
|--------------------------|--------------------------------------|
| RESISTANCE VALUES        | 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K |
| RESISTANCE TOLERANCE     | ±10%                                 |
| LINEARITY (INDEPENDENT)  | ±1%                                  |
| ELECTRICAL ANGLE         | 320° ±5°                             |
| END RESISTANCE           | 0.2% MAX.                            |
| RESOLUTION               | ESSENTIALLY INFINITE                 |
| INSULATION RESISTANCE    | 1000 MEGOHMS @ 500 VDC               |
| DIELECTRIC STRENGTH      | 500 VAC                              |
| POWER RATING             | 1 WATT                               |
| CONTACT RESIS. VARIATION | BELOW 2% C.R.V.                      |
| OUTPUT SMOOTHNESS        | LESS THAN 0.1%                       |

MECHANICAL

|                     |                   |
|---------------------|-------------------|
| NO. OF TURNS        | 1                 |
| MECHANICAL ROTATION | 320 ±5°           |
| ROTATIONAL LIFE     | 10,000,000 TURNS  |
| STOP STRENGTH       | 84 OZ. IN. MIN.   |
| TORQUE              | BELOW 0.8 OZ. IN. |
| WEIGHT              | APPROX 0.7 OZ.    |

ENVIRONMENTAL

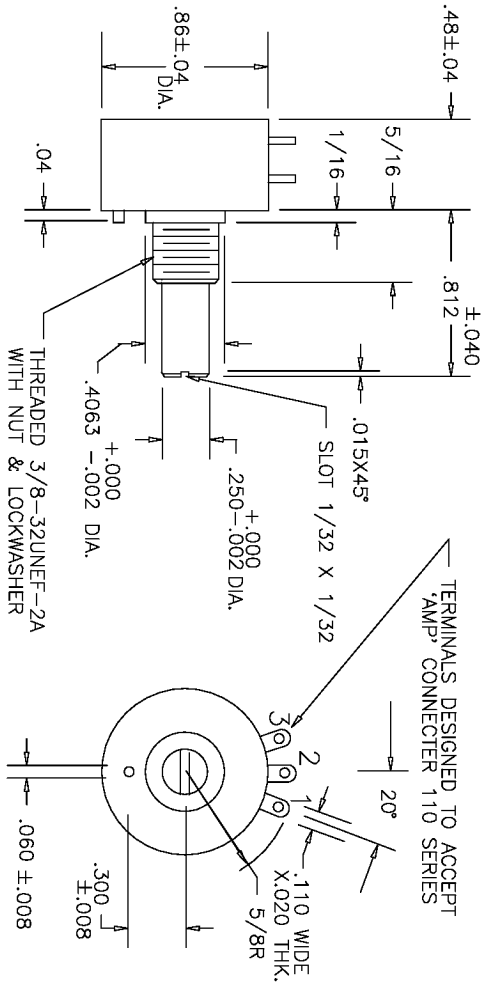
|                         |                      |
|-------------------------|----------------------|
| OPERATING TEMPERATURE   | -55°C TO +105°C      |
| TEMPERATURE COEFFICIENT | ±400 PPM/°C          |
| VIBRATION               | 10HZ TO 2000HZ 15G   |
| SHOCK                   | 50G 11ms         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

MATERIALS

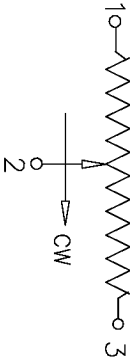
|           |                           |
|-----------|---------------------------|
| HOUSING   | HIGH TEMP. THERMO PLASTIC |
| TERMINALS | GOLD PLATED BRASS         |
| BUSHING   | BRASS                     |
| SHAFT     | STAINLESS STEEL           |
| ELEMENT   | CONDUCTIVE PLASTIC        |

OPTIONAL FEATURES

|                               |  |
|-------------------------------|--|
| SHAFT MODIFICATIONS           |  |
| REAR SHAFT                    |  |
| CENTER TAP                    |  |
| MULTI-GANGED UP TO 6 SECTIONS |  |
| O-RING SHAFT SEAL             |  |
| SPECIAL ANGLES                |  |



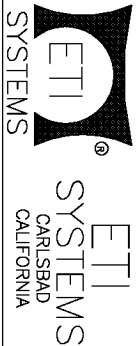
SCHEMATIC



TOLERANCES

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

|                   |              |
|-------------------|--------------|
| SCALE             | DATE: 8-4-86 |
| NONE              | BY           |
| APPRVD            | BT           |
| CODE IDENT: 19477 |              |



TITLE  
SINGLE TURN  
POTENTIOMETER

PART NO.  
SP22E