



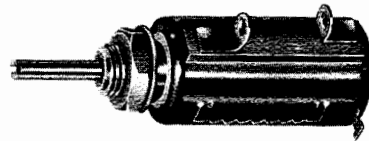
Model 3707  
 1/2" Diameter 10-Turn Bushing Mount  
 WIREWOUND ELEMENT

**OBSOLETE** 1983

### FEATURES

- Low Cost Design
- Miniature size 1/2" diameter by 1.00" long
- SILVERWELD® termination eliminates vulnerable single wire termination
- Special rotor design assures excellent wiper stability
- Stainless Steel shaft
- Operating temperature range -55°C to +105°C

Actual Size



### STANDARD RESISTANCES

| Resistance (Ohms) | Part Number* | Resolution (percent) |
|-------------------|--------------|----------------------|
| 100               | 3707S-1-101  | 0.072                |
| 200               | 3707S-1-201  | 0.060                |
| 500               | 3707S-1-501  | 0.048                |
| 1,000             | 3707S-1-102  | 0.038                |
| 2,000             | 3707S-1-202  | 0.027                |

| Resistance (Ohms) | Part Number* | Resolution (percent) |
|-------------------|--------------|----------------------|
| 5,000             | 3707S-1-502  | 0.030                |
| 10,000            | 3707S-1-103  | 0.028                |
| 20,000            | 3707S-1-203  | 0.021                |
| 50,000            | 3707S-1-503  | 0.016                |
| 100,000           | 3707S-1-104  | 0.014                |

\*The last three digits of the part number represent the resistance value in standard code.

# Model 3707 Wirewound Potentiometer

## SPECIFICATIONS

### ELECTRICAL CHARACTERISTICS

|   |                                 |
|---|---------------------------------|
| Resistance Range .....                    | 100 to 100K ohms                |
| Resistance Tolerance .....                | ±5% maximum                     |
| Linearity (Independent) .....             | ±1.0%                           |
| Resolution .....                          | (see standard resistance table) |
| Effective Electrical Angle .....          | 3600° (+10°/-5°)                |
| Noise during adjustment .....             | 100 ohms ENR maximum            |
| Power Ratings:                            |                                 |
| 40°C .....                                | 1.0 watt                        |
| 105°C .....                               | 0 watt                          |
| Dielectric Strength:                      |                                 |
| Room Conditions .....                     | 900 volts AC                    |
| 70,000 feet .....                         | 250 volts AC                    |
| Insulation Resistance, 500 volts DC ..... | 1000 megohms minimum            |

### ENVIRONMENTAL CHARACTERISTICS

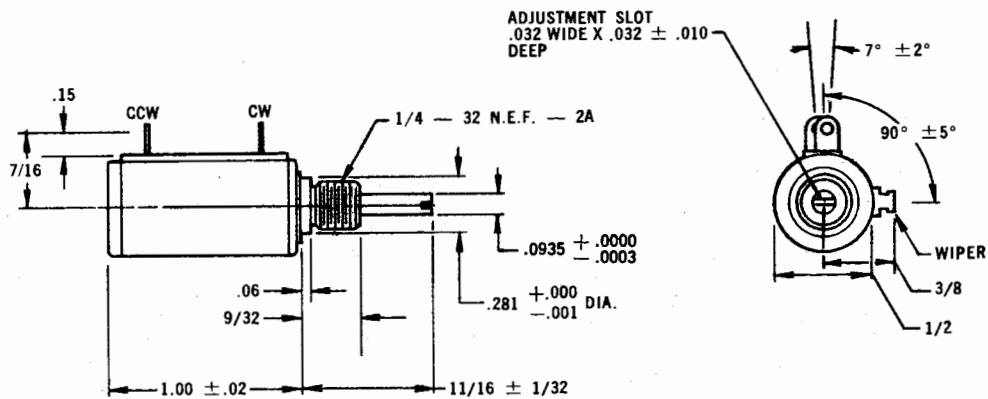
|  |                    |
|--|--------------------|
| Operating Temperature Range .....                | -55 to +105°C      |
| Temperature Coefficient of Resistance Wire ..... | 20 PPM/°C maximum  |
| Vibration .....                                  | .06" D.A. 10-55 Hz |
| Shock .....                                      | 50G                |

### MECHANICAL AND PHYSICAL CHARACTERISTICS

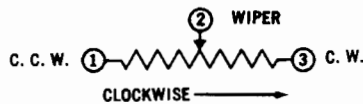
|                        |   |
|------------------------|---|
| Mechanical Angle ..... | 3600° minimum   |
| Rotational Life .....  | 200,000 shaft revolutions   |
| Stop Strength .....    | 20 oz.-in. minimum  |
| Torque .....           | 2.0 oz.-in. maximum (running)   |
| Weight .....           | Approximately 1 oz.   |
| Terminals .....        | Gold plated solder lugs   |
| Markings .....         | Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram and date code. |

Specifications are subject to change without notice.

3707



TOLERANCES: DECIMAL .XX ± .010 .XXX ± .005  
FRACTION: ± 1/64



LOCKWASHER AND MOUNTING NUT  
TO BE SUPPLIED WITH EACH UNIT



BOURNS, INC., TRIMPOT PRODUCTS DIVISION  
1200 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507