



## TRIMPOT® Potentiometer

Model 3369

½" Diameter, Single-Turn, High Performance  
Cermet Element

**OBSOLETE** 1980

Actual Size

## FEATURES

- Highest power rating available in a small ½" diameter case: 1.0 watt at +125°C.
- Improved setability and low noise for outstanding performance.
- Infinite resolution cermet element offers stable performance in all environments.
- The performance of a mil spec panel control in a P.C. pin-mounting style.
- ±10% resistance tolerance standard; ±5% available.
- "O" ring shaft seal at no extra cost.
- Immersion seal.

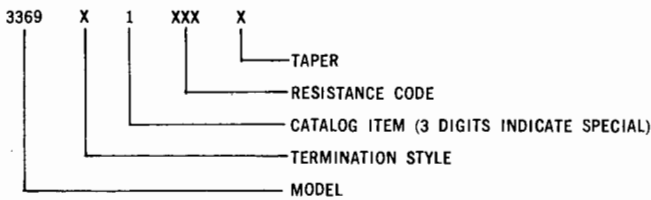


3369P



3369S

## STANDARD MODEL NUMBERING



## TERMINATION STYLE:

P — Printed Circuit Pins  
S — Solder Lugs

EXAMPLE OF MODEL NUMBERING:  
3369P-1-103C

## RESISTANCE CODE:

Value	Code	Value	Code
100	101	50,000	503
250	251	100,000	104
500	501	250,000	254
1,000	102	500,000	504
2,500	252	1,000,000	105
5,000	502	2,500,000	255
10,000	103	5,000,000	505
25,000	253		

## TAPER:

A — linear taper } ±10% resistance tolerance.  
C — 10% CW taper }  
F — 10% CCW taper }  
H — linear taper } ±5% resistance tolerance.

# TRIMPOT® Potentiometer Model 3369

## SPECIFICATIONS

### ELECTRICAL CHARACTERISTICS

Standard Resistance Range (Tapers A and H) ..... 100 to 5,000,000 ohms  
 (Tapers C and F) ..... 500 to 2,500,000 ohms

Resistance Tolerance\* ..... 10% standard

#### Absolute Minimum Resistance:

100 through 750 ohms	2 ohms
1,000 through 10,000 ohms	5 ohms
15,000 through 50,000 ohms	10 ohms
75,000 through 100,000 ohms	15 ohms
150,000 through 250,000 ohms	20 ohms
350,000 through 500,000 ohms	25 ohms
750,000 through 1,000,000 ohms	50 ohms
1,500,000 through 5,000,000 ohms	75 ohms

Continuity\* ..... Maintained for full mechanical angle

Contact Resistance Variation\* ..... ±3% of total resistance

Resolution ..... Infinite

#### Dielectric Strength:

Sea Level	750 volts RMS
80,000 Feet	350 volts RMS

Insulation Resistance (500 volts DC) ..... 1,000 megohms

Power Rating (350 volts Maximum) (Derate 50% on C and F Tapers)

+125°C	1 watt
+175°C	0 watt

### ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range ..... -65° to +175°C

Maximum Temperature Coefficient ..... ±150 ppm/°C

Vibration ..... 20Gs

Maximum Wiper Shift ..... ±6% of total resistance

Maximum Total Resistance Shift ..... ±2%

Shock ..... 50Gs

Maximum Wiper Shift ..... ±6% of total resistance

Maximum Total Resistance Shift ..... ±2%

Load Life ..... 1,000 hours

Maximum Total Resistance Shift ..... ±5%

Rotational Life ..... 1,000 cycles

Maximum Total Resistance Shift ..... ±5%

Moisture Resistance ..... MIL-STD-202, Method 106C

### MECHANICAL CHARACTERISTICS

Shaft Torque ..... 0.3 to 6 oz.-in.

Stop Strength ..... 2 lb.-in.

Mechanical Angle ..... 295° ±3°

Weight ..... 0.15 oz. or 4 grams maximum

Terminals ..... Printed circuit pins or solder lug

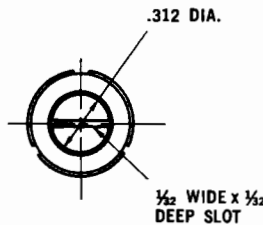
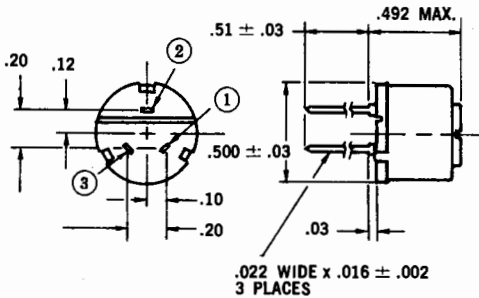
Markings ..... Manufacturer's symbol, wiring diagram, date code, resistance, manufacturer's part number

\*Inspection Note: 100% or statistical sampling inspection performed to insure highest quality.

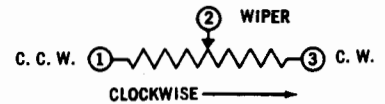
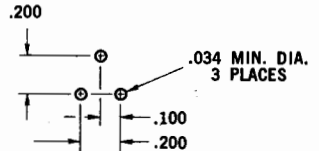
Specification Note: Closer performance tolerances can be supplied upon request.

Specifications are subject to change without notice.

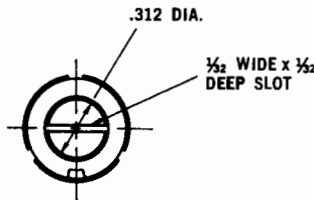
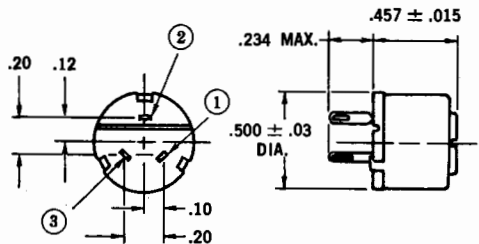
### 3369P



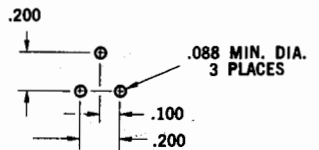
### SUGGESTED P.C. BOARD LAYOUT



### 3369S



### SUGGESTED P.C. BOARD LAYOUT



NOTES:  
 EACH SOLDER LUG WILL ACCOMMODATE THREE .025" DIA. (SOLID AWG 22) WIRES.

TOLERANCES:  
 EXCEPT WHERE NOTED  
 DECIMALS: .XX ± .010, .XXX ± .005  
 FRACTIONS: ± 1/4

