

## Features

- Stable, infinite resolution cermet element
- Vertical and horizontal adjust styles
- Optional packaging on embossed tape
- Compatible with surface mount manufacturing processes

# 3269 - 1/4 " Square SMD Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range .....10 ohms to 1 megohm  
 (see standard resistance table)  
 Resistance Tolerance .....±10 % std.  
 (closer tolerance available)  
 Absolute Minimum Resistance .....1 % or 2 ohms max.  
 (whichever is greater)  
 Contact Resistance Variation .....3.0 % or 3 ohms max.  
 (whichever is greater)  
 Adjustability  
 Voltage .....±0.02 %  
 Resistance .....±0.05 %  
 Resolution .....Infinite  
 Insulation Resistance .....500 vdc.  
 1,000 megohms min.

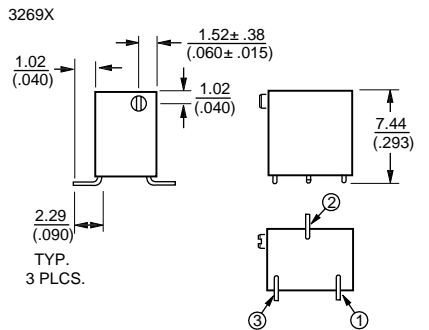
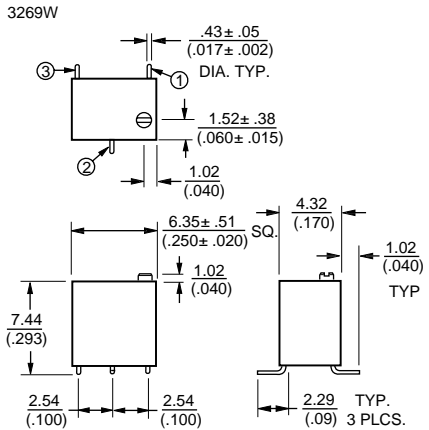
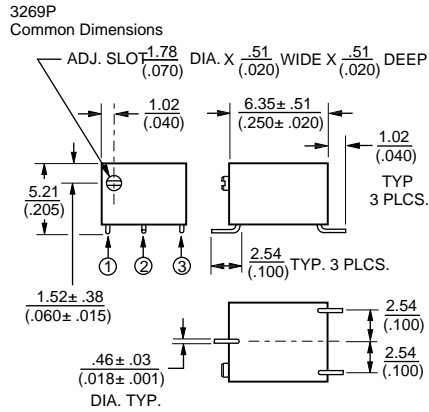
**Dielectric Strength**  
 Sea Level .....600 vac  
 80,000 Feet .....250 vac  
 Effective Travel .....12 turns nom.

### Environmental Characteristics

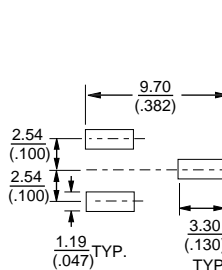
**Power Rating (300 volts max.)**  
 85 °C .....0.25 watt  
 150 °C .....0 watt  
 Temperature Range .....-65 °C to +150 °C  
 Temperature Coefficient .....±100 ppm/°C  
 Seal Test .....85 °C Fluorinert<sup>®</sup>  
 Humidity .....MIL-STD-202 Method 106  
 (2 % ΔTR; IR 100 Megohms)  
 Vibration .....30 G (1 % ΔTR; 1 % ΔVR)  
 Shock .....100 G (1 % ΔTR; 1 % ΔVR)  
 Load Life..1,000 hours 0.25 watt @ 85 °C  
 (3 % ΔTR; 3 % or 3 ohms  
 whichever is greater, CRV)  
 Rotational Life .....200 cycles  
 (2 % ΔTR; 3 % or 3 ohms,  
 whichever is greater, CRV)

### Physical Characteristics

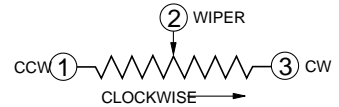
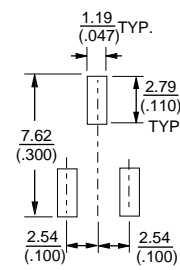
Torque .....3.0 oz-in. max.  
 Mechanical Stops .....Wiper idles  
 Terminals .....Solderable pins  
 Weight .....0.015 oz.  
 Marking .....Manufacturer's  
 trademark, resistance code,  
 wiring diagram, date code,  
 manufacturer's model  
 number and style  
 Standard Packaging .....50 pcs. per tube  
 Adjustment Tool .....H-90  
 Wiper .....50 % (Actual TR) ±10 %



RECOMMENDED PCB LAYOUT - "P"



RECOMMENDED PCB LAYOUT - "W" & "X"



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE:  $\frac{\text{MM}}{\text{(INCHES)}}$

### How To Order

3269 X - 1 - 103 G LF

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Standard or Modified Product Indicator \_\_\_\_\_  
 -1 = Standard Product  
 Resistance Code \_\_\_\_\_  
 Embossed Tape Designator \_\_\_\_\_  
 G = Embossed Tape  
 "P" Style - 750 pcs./13 " reel  
 "W, X" Style - 500 pcs./13 " reel  
 Terminations \_\_\_\_\_  
 LF = 100 % Tin-plated (RoHS compliant)  
 Blank = 90 % Tin / 10 % Lead-plated (Standard)

### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253
50,000	503
100,000	104
200,000	204
250,000	254
500,000	504
1,000,000	105

Popular distribution resistance values listed in boldface. Special resistances available.