



Features

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

- RoHS compliant* - see [processing information](#) on lead free surface mount trimmers

3269 - 1/4 " Square SMD Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
.....10 ohms to 1 megohm
(see standard resistance table)

Resistance Tolerance $\pm 10\%$ 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 $\pm 0.02\%$
Resistance $\pm 0.05\%$
ResolutionInfinite
Insulation Resistance500 vdc.
1,000 megohms min.

Dielectric Strength
Sea Level600 vac
80,000 Feet250 vac
Effective Travel12 turns nom.

Environmental Characteristics

Power Rating (300 volts max.)
85 °C0.25 watt
150 °C0 watt

Temperature Range-65 °C to +150 °C
Temperature Coefficient ± 100 ppm/°C

Seal Test85 °C Fluorinert[†]

HumidityMIL-STD-202 Method 106
(2 % Δ TR; IR 100 Megohms)

Vibration30 G (1 % Δ TR; 1 % Δ VR)
Shock100 G (1 % Δ TR; 1 % Δ VR)
Load Life..1,000 hours 0.25 watt @ 85 °C
(3 % Δ TR; 3 % or 3 ohms
whichever is greater, CRV)

Rotational Life200 cycles
(2 % Δ TR; 3 % or 3 ohms,
whichever is greater, CRV)

Physical Characteristics

Torque3.0 oz-in. max.

Mechanical StopsWiper idles

TerminalsSolderable pins

Weight0.015 oz.

MarkingManufacturer's
trademark, resistance code,
wiring diagram, date code,
manufacturer's model
number and style

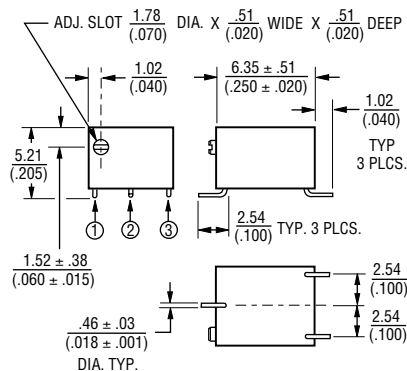
Standard Packaging50 pcs. per tube

Adjustment ToolH-90

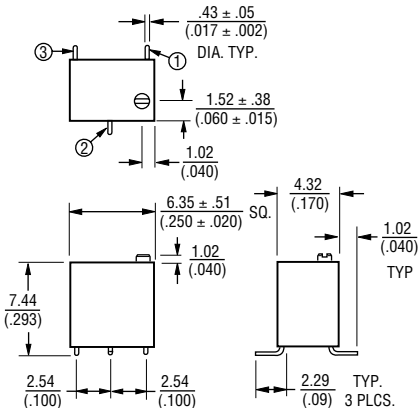
Wiper50 % (Actual TR) $\pm 10\%$

3269P

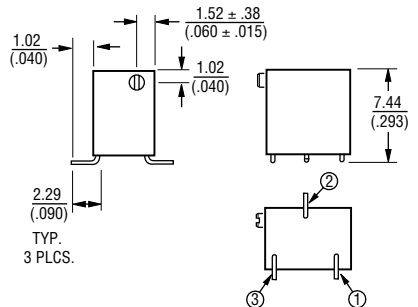
Common Dimensions



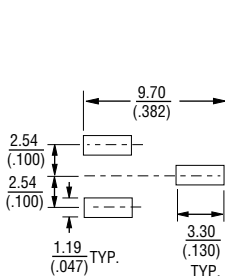
3269W



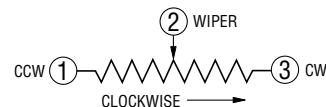
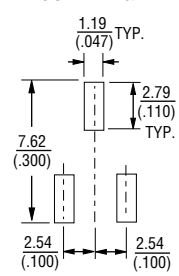
3269X



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 _____

For P pin style:
-1 = Terminals #1 & #3 away from sprocket holes
-2 = Terminals #1 & #3 toward sprocket holes

For W & X pin styles:
-1 = Terminals #1 & #3 toward sprocket holes
-2 = Terminals #1 & #3 away from sprocket holes

For P, W & X pin styles:
-11 = $\pm 5\%$ TR

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.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

[†]Fluorinert[™] is a registered trademark of 3M Co.

Specifications are subject to change without notice.

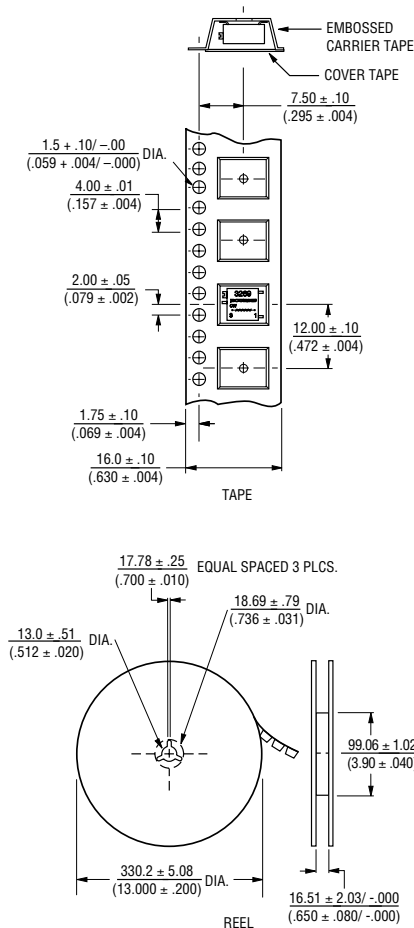
Customers should verify actual device performance in their specific applications.

3269 - Packaging Specifications

BOURNS®

Packaging Specifications

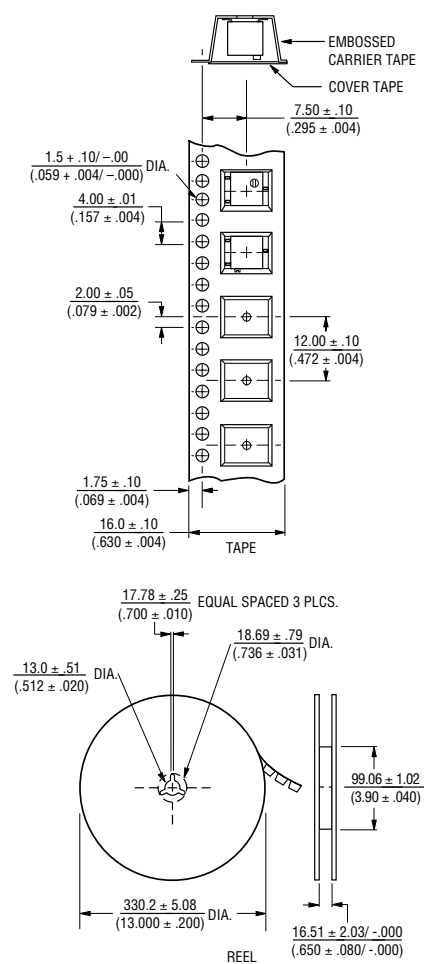
(P Style)



-1 as shown meets EIA Specification 481.
Units packaged 750 pieces per reel.

Packaging Specifications

(W & X Styles)



-2 as shown meets EIA Specification 481.
Units packaged 500 pieces per reel.