



## 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 RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

## 3269 – 1/4 " Square SMD Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Standard Resistance Range    | 10 ohms to 1 megohm<br>(see standard resistance table) |
| Resistance Tolerance         | ±10 % std.<br>(closer tolerance available)             |
| Absolute Minimum Resistance  | 1 % or 2 ohms max.<br>(whichever is greater)           |
| Contact Resistance Variation | 3.0 % or 3 ohms max.<br>(whichever is greater)         |
| Adjustability                |                                                        |
| Voltage Divider              | ±0.02 %                                                |
| Rheostat                     | ±0.05 %                                                |
| Resolution                   | Infinite                                               |
| Insulation Resistance        | 500 VDC<br>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 / 60 seconds                                                                     |
| Humidity                      | MIL-STD-202 Method 106<br>(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<br>(3 % ΔTR; 3 % or 3 ohms<br>whichever is greater, CRV) |
| Rotational Life               | 200 cycles<br>(2 % ΔTR; 3 % or 3 ohms,<br>whichever is greater, CRV)                   |

### Physical Characteristics

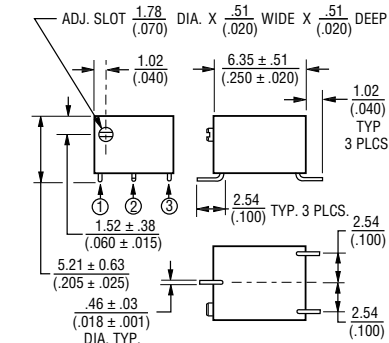
|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Torque             | 2.5 oz-in. max.                                                                                                         |
| Mechanical Stops   | Wiper idles                                                                                                             |
| Terminals          | Solderable pins                                                                                                         |
| Weight             | 0.015 oz.                                                                                                               |
| Marking            | Manufacturer's<br>trademark, resistance code,<br>wiring diagram, date code,<br>manufacturer's model<br>number and style |
| Standard Packaging | (MSL-2)<br>50 pcs. per tube                                                                                             |
| Adjustment Tool    | H-90                                                                                                                    |
| Wiper              | 50 % (Actual TR) ±10 %                                                                                                  |

\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex  
"Trimpot" is a trademark of Bourns, Inc.

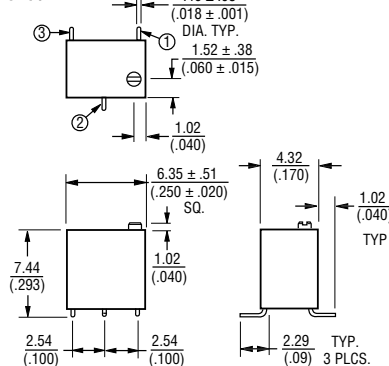
### Product Dimensions

#### 3269P

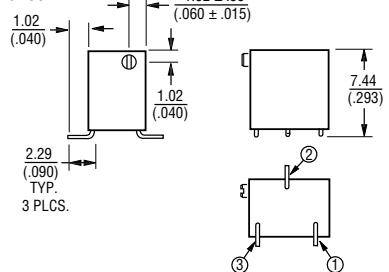
##### Common Dimensions



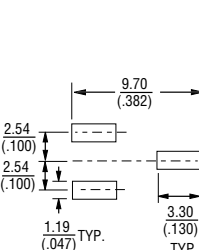
#### 3269W



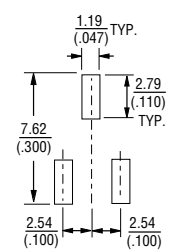
#### 3269X



#### RECOMMENDED PCB LAYOUT - "P"



#### RECOMMENDED PCB LAYOUT - "W" & "X"



DIMENSIONS: MM (INCHES)

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

### Additional Information

Click these links for more information:



### 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

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

For P, W & X pin styles:  
-11 = ±5 % TR

Resistance Code \_\_\_\_\_

Embossed Tape Designator \_\_\_\_\_

G = Embossed Tape (MSL-2)  
"P" Style - 750 pcs./13 " reel  
"W, X" Style - 500 pcs./13 " reel

Tape and reel material meets Antistatic  
ANSI/ESD 5541-2003 packaging standards.

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             |
| <b>100</b>        | <b>101</b>      |
| <b>200</b>        | <b>201</b>      |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      | <b>502</b>      |
| <b>10,000</b>     | <b>103</b>      |
| <b>20,000</b>     | <b>203</b>      |
| <b>25,000</b>     | <b>253</b>      |
| <b>50,000</b>     | <b>503</b>      |
| <b>100,000</b>    | <b>104</b>      |
| 200,000           | 204             |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |

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

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Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).



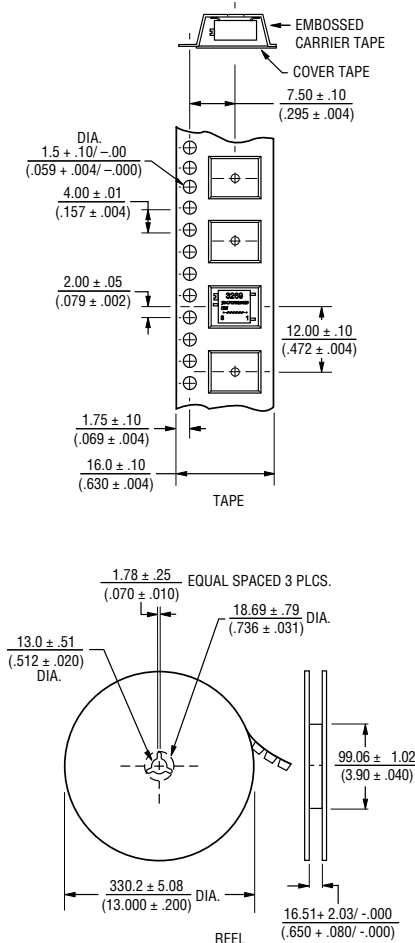
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 3269 - Packaging Specifications

**BOURNS®**

### Packaging Specifications

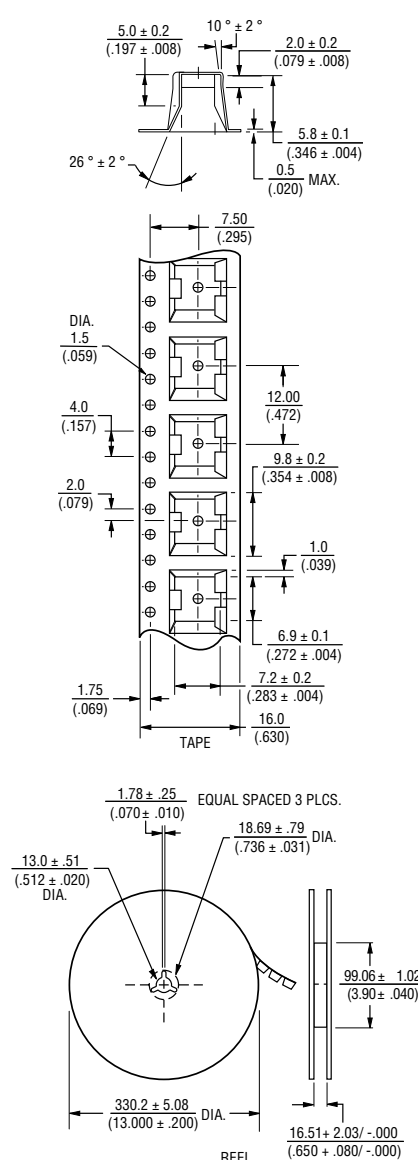
(P Style)



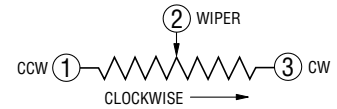
-1 as shown meets EIA Specification 481.  
Units packaged 750 pieces per reel.

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

(W & X Styles)



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



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