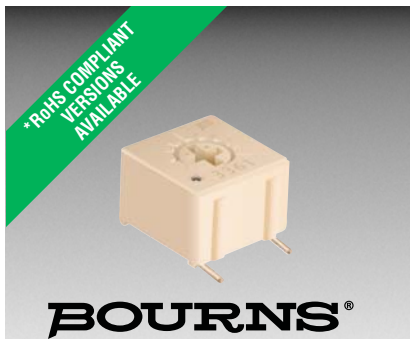




## Features

- Single-Turn / Cermet / Industrial / Sealed
- Miniature package
- Rotor designed for automatic machine adjust interface
- Withstands harsh environments and immersion cleaning processes

- Compatible with surface mount manufacturing processes
- RoHS compliant\* - see [processing information](#) on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

## 3361 - 1/4 " Square SMD Trimpot® Trimming Potentiometer

### Electrical Characteristics

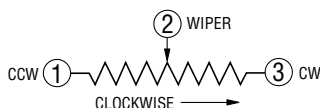
|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| Std. Resistance Range.....         | 10 to 2 megohms<br>(see standard resistance table) |
| Resistance Tolerance .....         | ±10 % std.<br>(tighter tolerance available)        |
| Absolute Minimum Resistance .....  | 1 % or 2 ohms<br>(whichever is greater)            |
| Contact Resistance Variation ..... | 3 % or 3 ohms max.<br>(whichever is greater)       |
| Adjustability                      |                                                    |
| Voltage .....                      | ±0.05 %                                            |
| Resistance .....                   | ±0.15 %                                            |
| Resolution.....                    | Infinite                                           |
| Insulation Resistance .....        | 500 vdc.<br>1,000 megohms min.                     |
| Dielectric Strength                |                                                    |
| Sea Level .....                    | 900 vac                                            |
| 80,000 Feet.....                   | 350 vac                                            |
| Adjustment Angle.....              | 240 ° nom.                                         |

### Environmental Characteristics

|                                                |                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------|
| Maximum Soldering Exposure<br>(Temp/Time)..... | +260 °C/20 sec. max.<br>above 255 °C                                                   |
| Power Rating (300 volts max.)                  |                                                                                        |
| 70 °C .....                                    | 0.50 watt                                                                              |
| 125 °C .....                                   | 0 watt                                                                                 |
| Temperature Range.....                         | -55 °C to +125 °C                                                                      |
| Temperature Coefficient .....                  | ±100 ppm/°C                                                                            |
| Seal Test .....                                | 85 °C Fluorinert†/60 seconds                                                           |
| Humidity.....                                  | MIL-STD-202 Method 103<br>96 hours<br>(2 % ΔTR; 10 Megohms IR)                         |
| Vibration .....                                | 30 G (1 % ΔTR; 1 % ΔVR)                                                                |
| Shock.....                                     | 100 G (1 % ΔTR; 1 % ΔVR)                                                               |
| Load Life.....                                 | 1,000 hours 0.5 watt @ 70 °C<br>(3 % ΔTR; 3 % or 3 ohms,<br>whichever is greater, CRV) |
| Rotational Life.....                           | 200 cycles<br>(4 % ΔTR; 3 % or 3 ohms,<br>whichever is greater, CRV)                   |

### Physical Characteristics

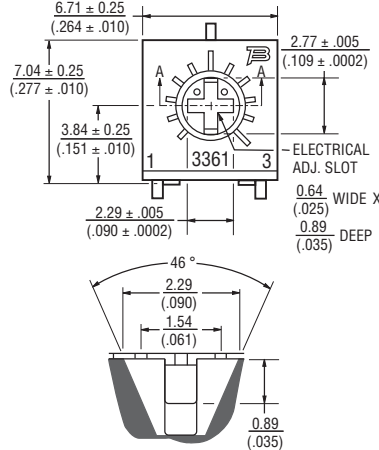
|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| Mechanical Angle ..... | 270 ° nom.                                                                                   |
| Torque.....            | 3.0 oz-in. max.                                                                              |
| Stop Strength.....     | 7.0 oz-in. min.                                                                              |
| Terminals .....        | Solderable pins                                                                              |
| Weight .....           | 0.02 oz.                                                                                     |
| Marking.....           | Resistance code,<br>terminal numbers, manufacturer's<br>model number, style<br>and date code |
| Wiper .....            | 50 % (Actual TR) ±10 %                                                                       |
| Flammability .....     | U.L. 94V-0                                                                                   |
| Standard Packaging     |                                                                                              |
| "S" Style .....        | 500 pcs./13 " reel                                                                           |
| "P" Style .....        | 750 pcs./13 " reel                                                                           |
| Adjustment Tool.....   | H-90                                                                                         |



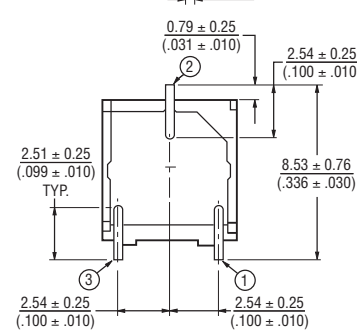
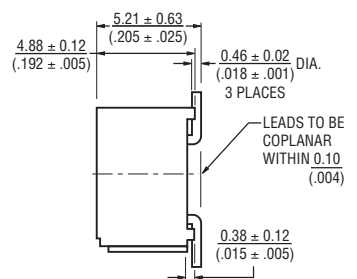
TOLERANCES:  $\frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

### Product Dimensions

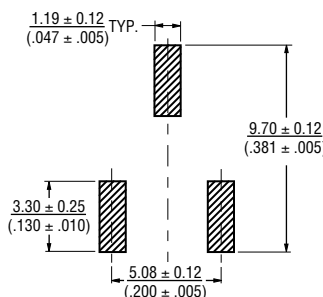
3361P



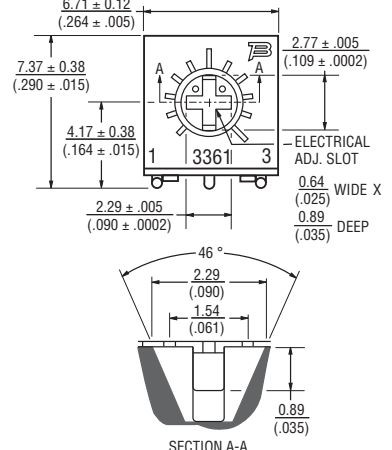
SECTION A-A



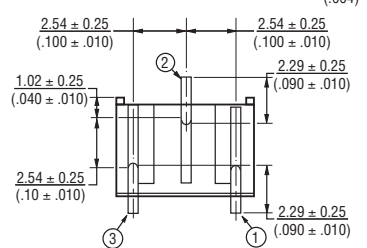
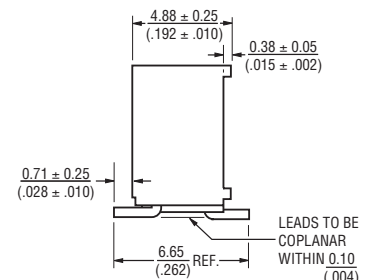
### Recommended Land Pattern



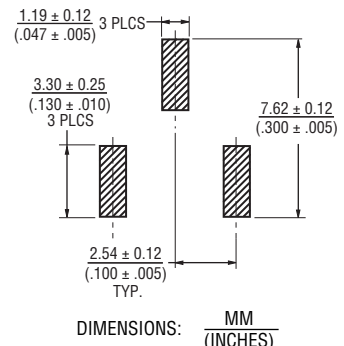
3361S



SECTION A-A



### Recommended Land Pattern



\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 †"Fluorinert" is a registered trademark of 3M Co.  
 Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
 Users should verify actual device performance in their specific applications.

# 3361 - 1/4 " Square SMD Trimpot® Trimming Potentiometer

**BOURNS®**

## How To Order

**3361 P - 1 - 502 G LF**

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Standard or Modified  
 Product Indicator \_\_\_\_\_  
 -1 = Standard Product  
 Resistance Code \_\_\_\_\_  
 Packaging Designator \_\_\_\_\_  
 G = Embossed Tape  
 "S" Style = 500 pcs./13 " reel  
 "P" Style = 750 pcs./13 " reel  
 Terminations \_\_\_\_\_  
 LF = 100 % Tin-plated (RoHS compliant)  
 Blank = 90 % Tin / 10 % Lead-plated  
 (Standard)  
 Consult factory for other available options.

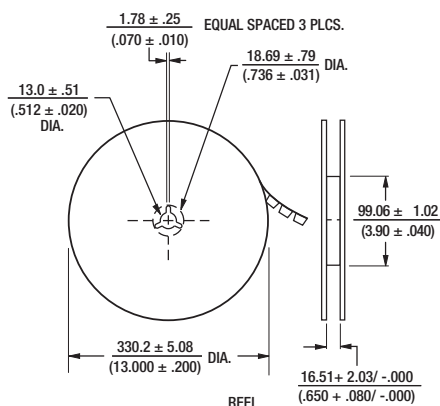
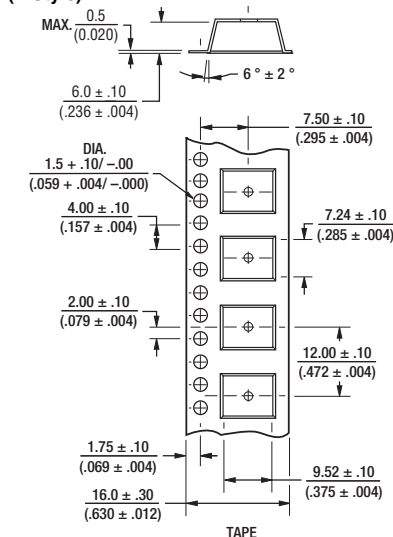
## Standard Resistance Table

| 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             |
| 2,000,000         | 205             |

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

## Packaging Specifications

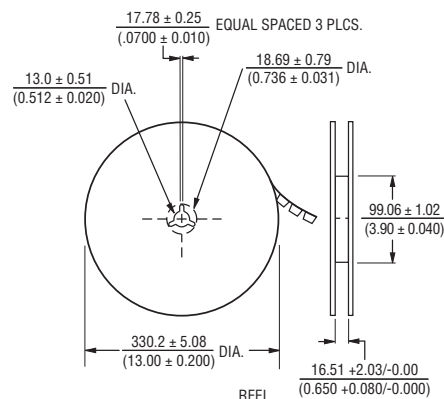
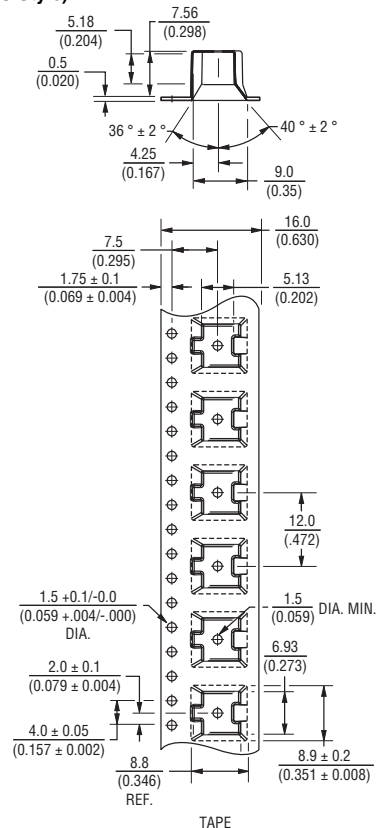
### (P Style)



UNITS PACKAGED 750 PIECES PER REEL.

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

### (S Style)



UNITS PACKAGED 500 PIECES PER REEL.

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

REV. 08/14

"Trimpot" is a registered trademark of Bourns, Inc.  
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