



### Features

- Surface Mount 3 mm Square Single-Turn Cermet / Sealed
- Compatible with surface mount manufacturing processes
- Rotor stop for "in-circuit" adjustment
- 100 cycle rotational and seal life
- Patent #5043695 assembly for seal integrity
- Plastic housing for RF applications
- RoHS compliant\* - see processing information on lead free surface mount trimmers

## 3313 - 3 mm Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range .....10 ohms to 2 megohms (see standard resistance table)  
 Resistance Tolerance .....±20 % std.  
 End Resistance.....1 % or 3 ohms max. (whichever is greater)  
 Contact Resistance Variation .....3 % or 3 ohms  
 Adjustability  
 Voltage Divider.....±0.1 %  
 Rheostat .....±0.2 %  
 Resolution.....Infinite  
 Insulation Resistance .....500 vdc. 100 megohms min.  
 Dielectric Strength  
 Sea Level .....500 vac  
 70,000 Feet.....350 vac  
 Adjustment Angle .....220° nom.

### Environmental Characteristics

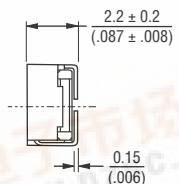
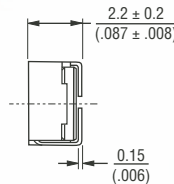
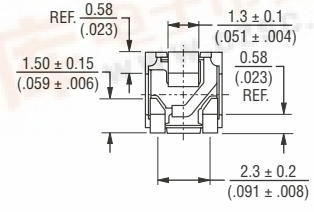
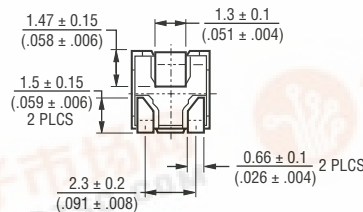
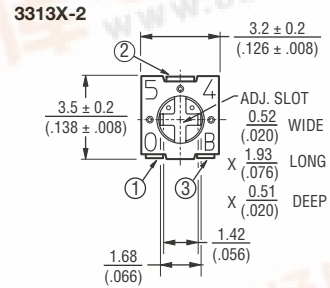
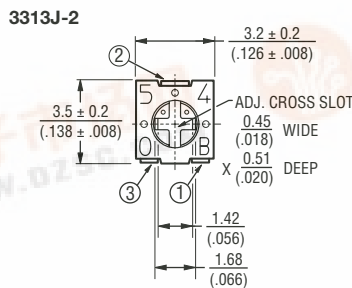
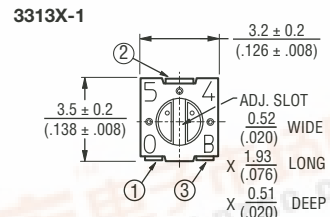
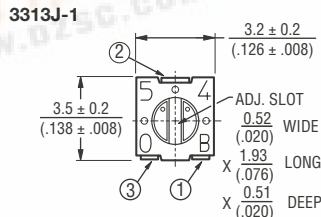
Max. Soldering Exposure .....260 °C/5 seconds  
 Power Rating (200 volts max.)  
 70 °C .....0.125 watt  
 125 °C .....0 watt  
 Operating Temp. Range .....-55 °C to +125 °C  
 Temperature Coefficient  
 .....≤100 ohms ±150 ppm/°C;  
 .....>100 ohms ±100 ppm/°C  
 Seal Test.....85 °C Fluorinert†  
 Humidity .....MIL-STD 202, Method 106 (no vibration) TRS ±3 %;  
 IR 10 megohms  
 Vibration .....20 G TRS ±1 %; VRS ±1 %  
 Shock .....100 G TRS ±1 %; VRS ±1 %  
 Load Life .....1000 hours @ 70 °C Rated Power; TRS ±3 %  
 Rotational Life .....100 cycles TRS ±3 %  
 Thermal Shock .....5 cycles TRS ±2 %; VRS ±1 %

### Physical Characteristics

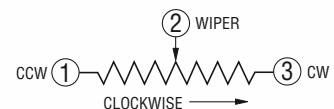
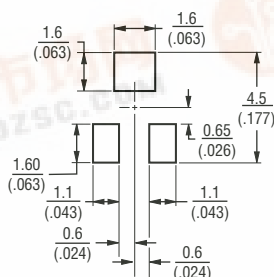
Mechanical Angle .....250 ° nom.  
 Torque .....50 g-cm max.  
 Stop Strength.....200 g-cm min.  
 Pushover Strength ("S" only) .....1.6 Kilograms (3.5 lbs) minimum  
 Flammability .....U.L. 94V-0  
 Weight.....Approx. 0.01 oz.  
 Marking .....Resistance code and date code  
 Wiper.....50 % (Actual TR) ±10 %

Standard Packaging  
 Style .....1000 pcs./7 " reel  
 Style .....200 pcs./7 " reel  
 Adjustment Tool .....H-91

### Product Dimensions



### RECOMMENDED LAND PATTERN



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

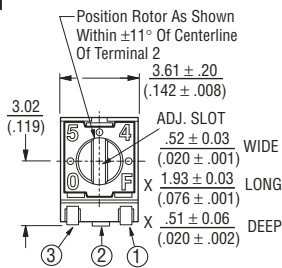
DIMENSIONS ARE:  $\frac{\text{MM}}{\text{(INCHES)}}$

# 3313 - 3 mm Trimming Potentiometer

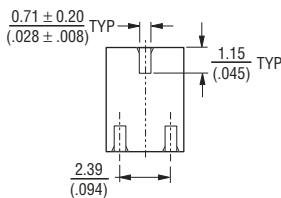
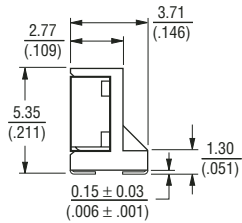
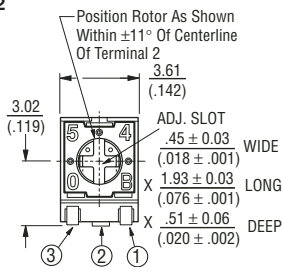
**BOURNS®**

## Product Dimensions

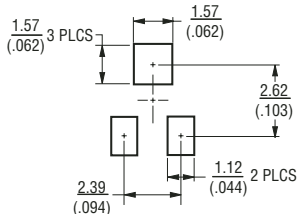
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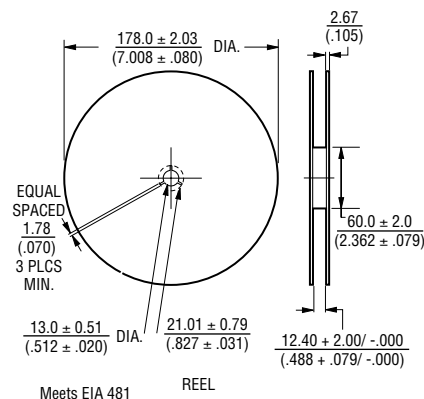
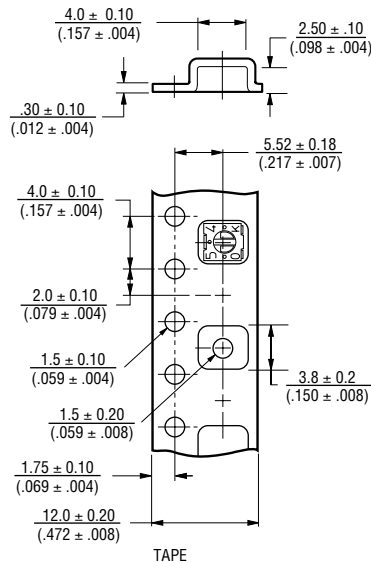
### 3313S-2



## RECOMMENDED LAND PATTERN



## 3313J/X Packaging Specifications



TOLERANCES:  $\pm$  0.25 (.010) EXCEPT WHERE NOTED

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

## How To Order

**3313 J - 1 - 502 E**

Model \_\_\_\_\_

Style \_\_\_\_\_

Standard or Modified \_\_\_\_\_

Product Indicator \_\_\_\_\_

-1 = Single Slot

-2 = Cross Slot

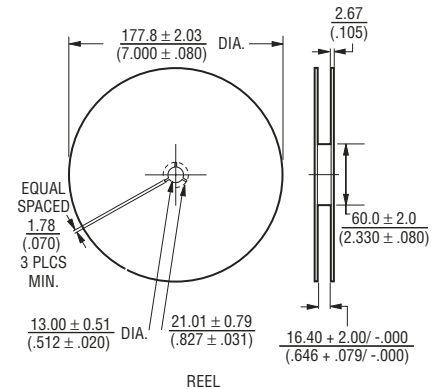
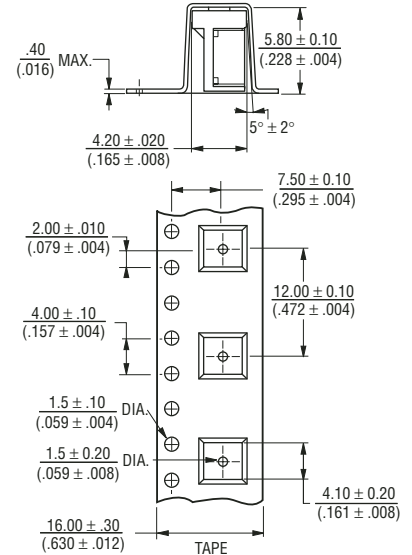
Resistance Code \_\_\_\_\_

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

1000 pcs. / 7" Reel (J Style)

200 pcs. / 7" Reel (S Style)

## 3313S Packaging Specifications



## Standard Resistance Table

| Resistance (Ohms) | Part Marking Code | Resistance Code |
|-------------------|-------------------|-----------------|
| 10                | A1                | 100             |
| 20                | 21                | 200             |
| 50                | 51                | 500             |
| <b>100</b>        | <b>A2</b>         | <b>101</b>      |
| <b>200</b>        | <b>22</b>         | <b>201</b>      |
| <b>500</b>        | <b>52</b>         | <b>501</b>      |
| <b>1,000</b>      | <b>A3</b>         | <b>102</b>      |
| <b>2,000</b>      | <b>23</b>         | <b>202</b>      |
| <b>5,000</b>      | <b>53</b>         | <b>502</b>      |
| <b>10,000</b>     | <b>A4</b>         | <b>103</b>      |
| <b>20,000</b>     | <b>24</b>         | <b>203</b>      |
| <b>50,000</b>     | <b>54</b>         | <b>503</b>      |
| <b>100,000</b>    | <b>A5</b>         | <b>104</b>      |
| 200,000           | 25                | 204             |
| 500,000           | 55                | 504             |
| 1,000,000         | A6                | 105             |
| 2,000,000         | 26                | 205             |

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