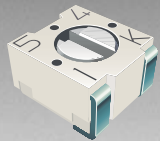


ROHS COMPLIANT



**BOURNS®**

**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**

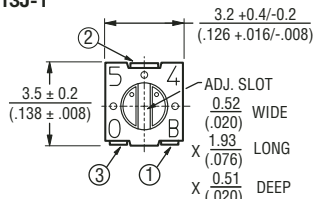
Max. Soldering Exposure .....260 °C/5 seconds  
 Power Rating (200 volts max.)  
 70 °C .....0.125 watt  
 125 °C .....0 watt  
 Operating Temp. Range .....-55 °C to +125 °C  
 Temperature Coefficient  
 .....≤100 ohms ±150 ppm/°C;  
 >100 ohms ±100 ppm/°C  
 Seal Test .....85 °C Fluorinert†  
 Humidity .....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**

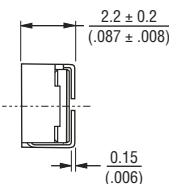
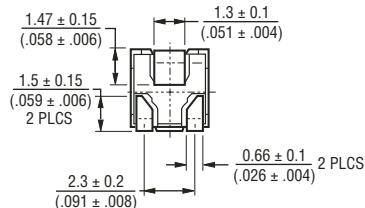
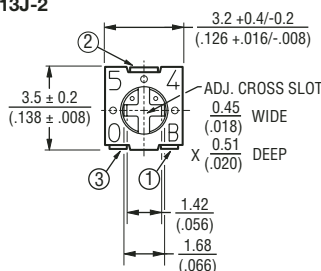
Mechanical Angle .....250 ° nom.  
 Torque .....50 g-cm max.  
 Stop Strength .....200 g-cm min.  
 Pushover Strength (“S” only) .....1.6 Kilograms (3.5 lbs) minimum  
 Flammability .....U.L. 94V-0  
 Weight .....Approx. 0.01 oz.  
 Marking .....Resistance code and date code  
 Wiper .....50 % (Actual TR) ±10 %  
 Standard Packaging  
 J Style .....1000 pcs./7 ” reel  
 S Style .....200 pcs./7 ” reel  
 Adjustment Tool .....H-91

**Product Dimensions**

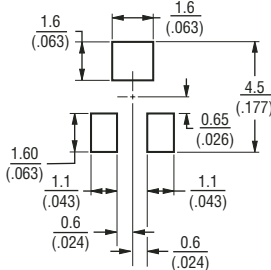
**3313J-1**



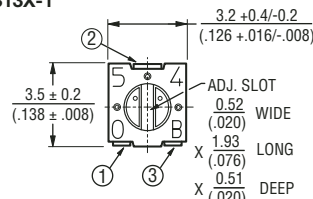
**3313J-2**



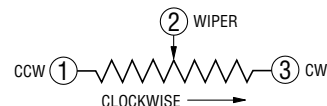
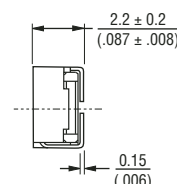
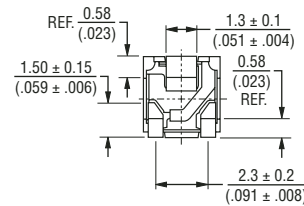
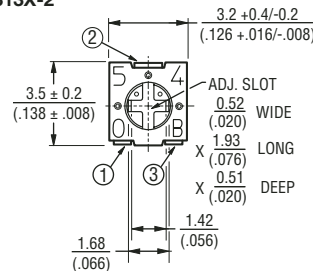
**RECOMMENDED LAND PATTERN**



**3313X-1**



**3313X-2**



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

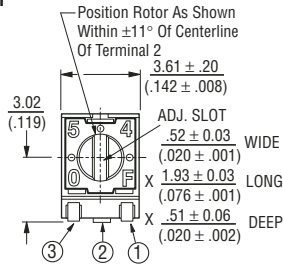
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 †“Fluorinert” is a registered trademark of 3M Co.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

# 3313 - 3 mm Trimming Potentiometer

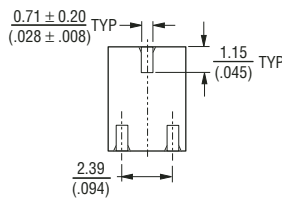
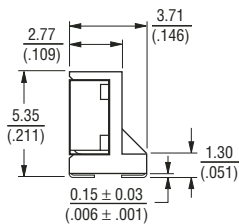
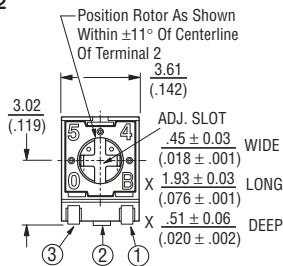
**BOURNS®**

## Product Dimensions

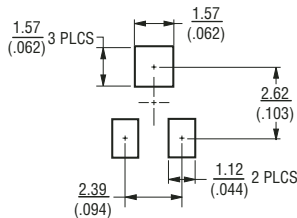
### 3313S-1



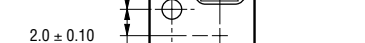
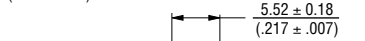
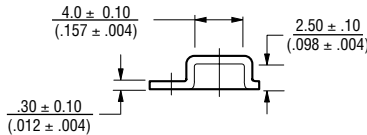
### 3313S-2



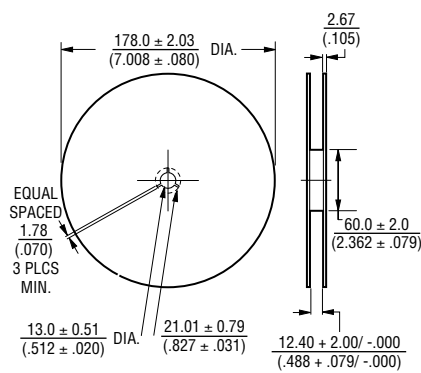
### RECOMMENDED LAND PATTERN



## 3313J/X Packaging Specifications



TAPE



Meets EIA 481

REEL

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

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

## How To Order

**3313 J - 1 - 502 E**

Model \_\_\_\_\_

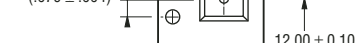
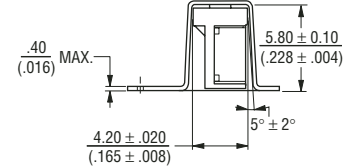
Style \_\_\_\_\_

Standard or Modified Product Indicator  
 -1 = Single Slot  
 -2 = Cross Slot

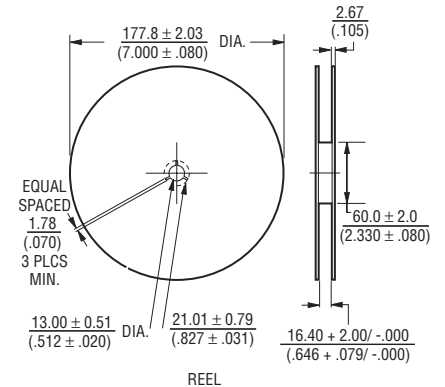
Resistance Code \_\_\_\_\_

Embossed Tape  
 1000 pcs. / 7 " Reel (J Style)  
 200 pcs. / 7 " Reel (S Style)

## 3313S Packaging Specifications



TAPE



REEL

## Standard Resistance Table

Resistance (Ohms)	Part Marking Code	Resistance Code
10	A1	100
20	21	200
50	51	500
100	A2	101
200	22	201
500	52	501
1,000	A3	102
2,000	23	202
5,000	53	502
10,000	A4	103
20,000	24	203
50,000	54	503
100,000	A5	104
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.

REV. 11/06

Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.