

### **Features**

- Surface Mount 3 mm Square Single-Turn Cermet / Sealed
- Compatible with surface mount manufacturing processes (not recommended for wave soldering)
- Rotor stop for "in-circuit" adjustment
- 100 cycle rotational and seal life

- Plastic housing for RF applications
- Reverse pin layout option (Model 3313X)
- RoHS compliant\*
- Halogen free\*\* models available
- AEC-Q200 Qualified Grade 1

# 3313 – 3 mm Trimpot® Trimming Potentiometer

WIDE

LONG

DEEP

WIDE

#### **Additional Information**

Click these links for more information:













### **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 ......250 °C/10 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 / 60 seconds 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 %

Storage Condition

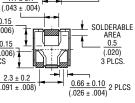
......40 °C max. / 70 % R.H. max.

### (.126 +.016/-.008) ADJ SLOT X (1.93) x (0.51) 3313J-2 3.2 +0.4/-0.2 (.126 +.016/-.008) ADJ. CROSS SLOT 35+02 (.138 ± .008) $X_{(.020)}^{0.51}$ DEEP 1.42 1.68 (.056) (.066)

1.1 ± 0.1

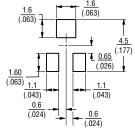
.50 ± 0.15

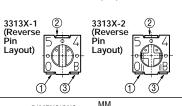
**Product Dimensions** 





RECOMMENDED LAND PATTERN

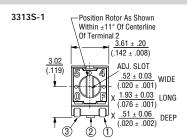


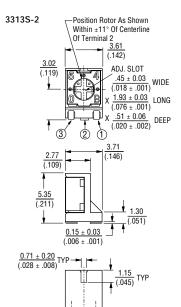


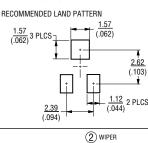
DIMENSIONS:

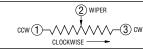
(INCHES)

**EXCEPT WHERE NOTED** TOLERANCES: ± -(.010)









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Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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RoHS Directive 2015/863, Mar. 31, 2015 and Annex.

Halogen free product is identified by a black housing color. Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm

# Features (Continued)

- See processing information on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, click here

# 3313 – 3 mm Trimpot® Trimming Potentiometer

# BOURNS

### **Physical Characteristics**

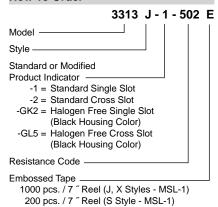
Mechanical Angle 250 ° nom.
Torque50 g-cm max.
Stop Strength200 g-cm min.
Pushover Strength ("S" Style only)
1.6 Kilograms (3.5 lbs) minimum
FlammabilityU.L. 94V-0
WeightApprox. 0.01 oz.
Marking Resistance code
and date code
Wiper 50 % (Actual TR) ±10 %
Standard Packaging
J, X Styles (MSL-1) 1000 pcs./7 " reel
S Style (MSL-1) 200 pcs./7 " reel
Adjustment Tool H-91

#### **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

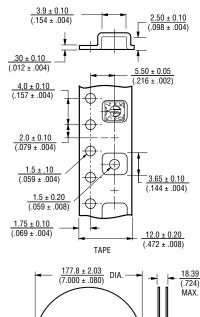
Popular distribution resistance values listed in boldface. Special resistances available.

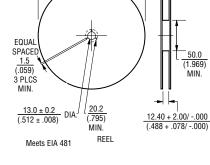
#### **How To Order**



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

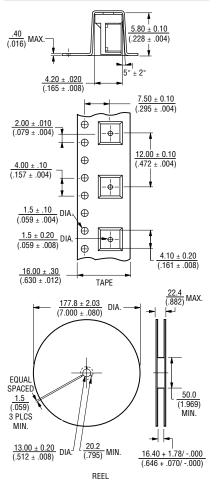
# 3313J, X Packaging Specifications





DIMENSIONS:	MM (INCHES)
TOLERANCES: $\pm \frac{0.25}{(.010)}$	EXCEPT WHERE NOTED

# 3313S Packaging Specifications



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REV. 02/24

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