



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

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. |

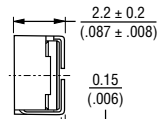
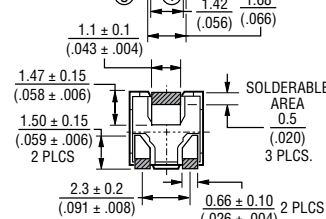
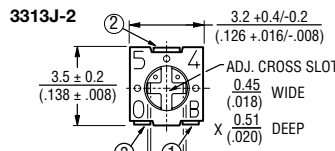
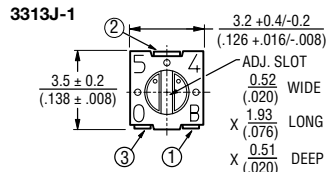
Environmental Characteristics

| | |
|-------------------------------|--------------------------------|
| 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 Fluorinert†/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 % |

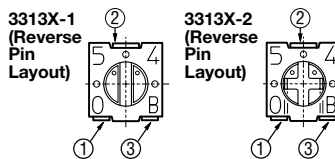
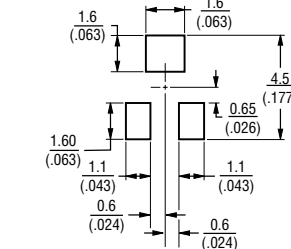
Physical Characteristics

| | |
|------------------------------------|-------------------------------------|
| Mechanical Angle | 250 ° nom. |
| Torque | 50 g-cm max. |
| Stop Strength | 200 g-cm min. |
| Pushover Strength ("S" Style 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, X Styles (MSL-1) | 1000 pcs./7 " reel |
| S Style (MSL-1) | 200 pcs./7 " reel |
| Adjustment Tool | H-91 |

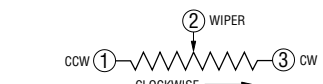
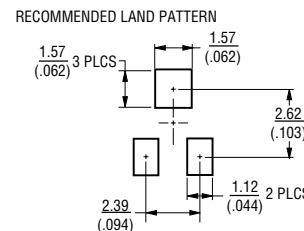
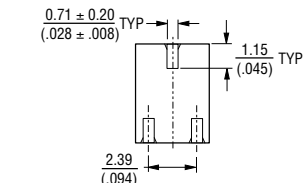
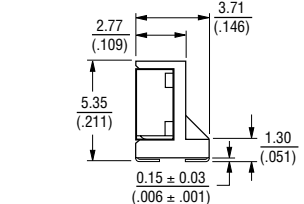
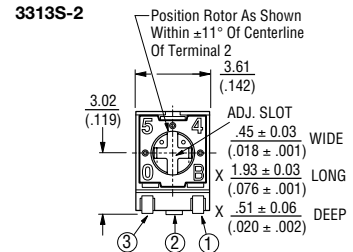
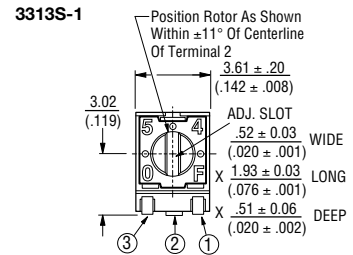
Product Dimensions



RECOMMENDED LAND PATTERN



| | |
|-------------|-----------------------------------|
| DIMENSIONS: | MM |
| | (INCHES) |
| TOLERANCES: | ± 0.25 (0.010) EXCEPT WHERE NOTED |



* 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 or less.

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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®

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

3313 J - 1 - 502 E

Model _____

Style _____

Standard or Modified Product Indicator _____

- 1 = Standard Single Slot
- 2 = Standard Cross Slot
- GK2 = Halogen Free Single Slot (Black Housing Color)
- GL5 = Halogen Free Cross Slot (Black Housing Color)

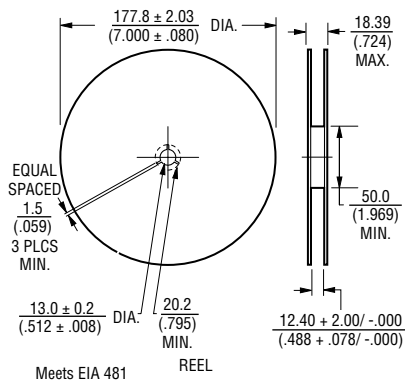
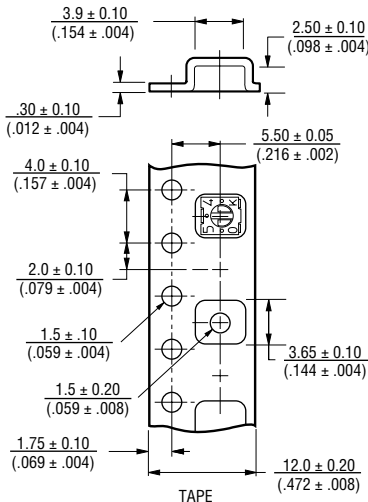
Resistance Code _____

Embossed Tape _____

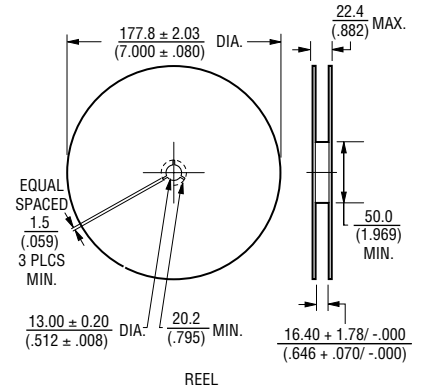
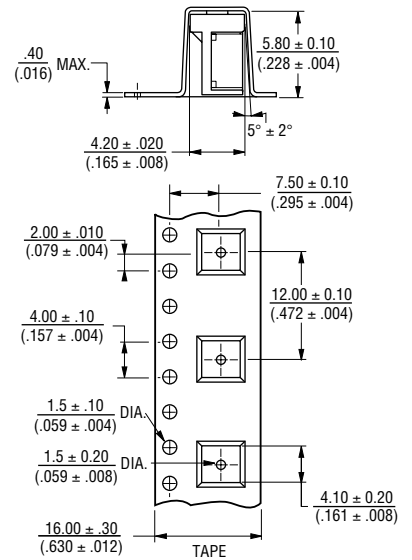
- 1000 pcs. / 7" Reel (J, X Styles - MSL-1)
- 200 pcs. / 7" Reel (S Style - MSL-1)

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

3313J, X Packaging Specifications



3313S Packaging Specifications



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

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

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REV. 08/19

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