



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.

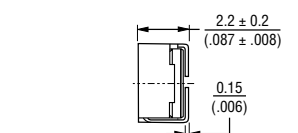
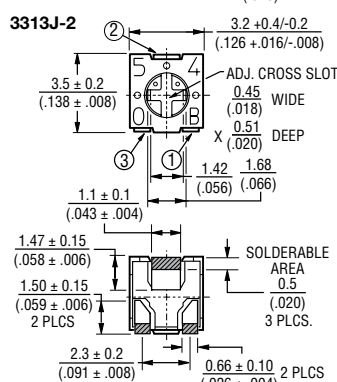
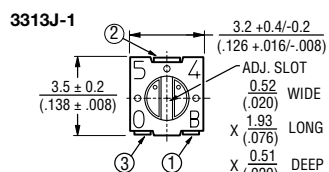
Environmental Characteristics

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 %

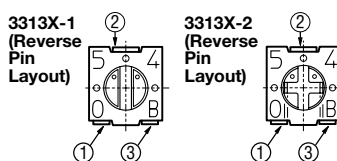
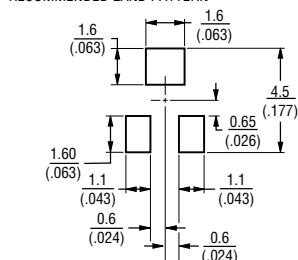
Physical Characteristics

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

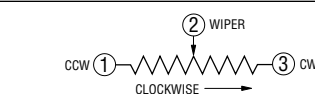
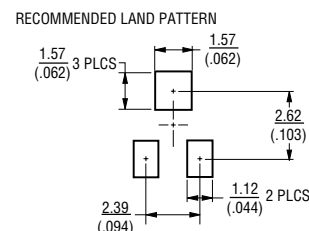
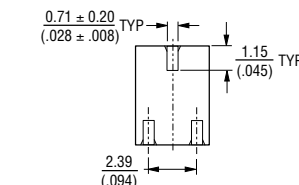
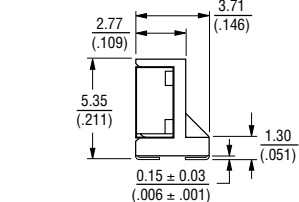
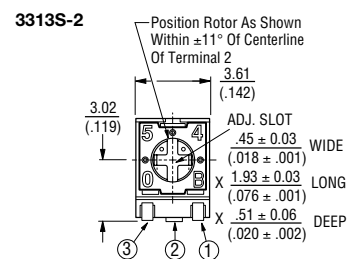
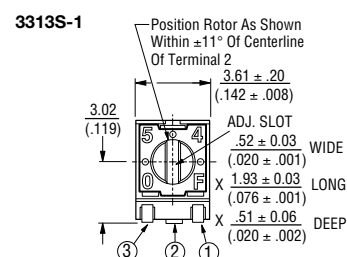
Product Dimensions



RECOMMENDED LAND PATTERN



DIMENSIONS:	MM
	(INCHES)
TOLERANCES:	± 0.25
	(.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.

[†]Fluorinert[™] is a registered trademark of 3M Co.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

- See [processing information](#) on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

BOURNS®

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

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

Technical drawing of a reel tape showing top, side, and end views with dimensions in inches and millimeters.

Top View Dimensions:

- Top edge: $.40$ (MAX.) (.016)
- Right edge: 5.80 ± 0.10 (.228 $\pm$.004)
- Bottom edge: $4.20 \pm .020$ (.165 $\pm$.008)
- Bottom right corner: $5^\circ \pm 2^\circ$
- Overall width: 7.50 ± 0.10 (.295 $\pm$.004)

Side View Dimensions:

- Top edge: $2.00 \pm .010$ (.079 $\pm$.004)
- Second edge: $4.00 \pm .10$ (.157 $\pm$.004)
- Third edge: $1.5 \pm .10$ (.059 $\pm$.004) DIA.
- Fourth edge: 1.5 ± 0.20 (.059 $\pm$.008) DIA.
- Bottom edge: $16.00 \pm .30$ (.630 $\pm$.012)
- Overall height: 12.00 ± 0.10 (.472 $\pm$.004)
- Bottom right corner: 4.10 ± 0.20 (.161 $\pm$.008)

End View Dimensions:

- Overall width: 177.8 ± 2.03 (7.000 $\pm$.080) DIA.
- Top edge: 22.4 (.882) MAX.
- Bottom edge: 50.0 (1.969) MIN.
- Overall height: $16.40 \pm 1.78 / -.000$ (.646 $\pm$.070 / -.000)
- Inner diameter: 20.2 (.795) MIN.
- Inner diameter: 13.00 ± 0.20 (.512 $\pm$.008) DIA.

Other Labels:

- TAPE
- EQUAL SPACED 1.5 (.059) 3 PLCS MIN.
- REEL

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