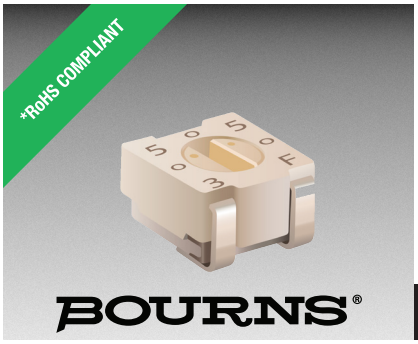


Features

- 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

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Characteristics

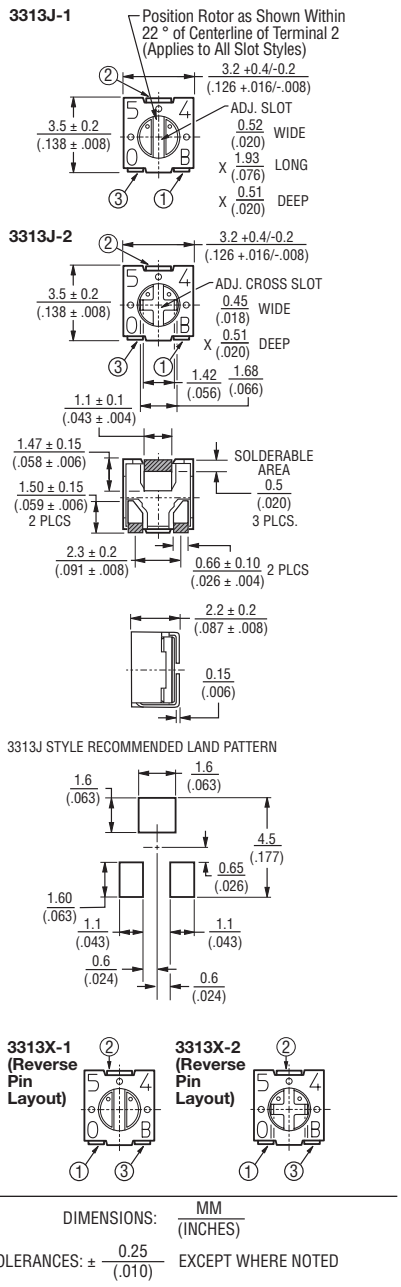
Standard Resistance Range
..... 10 ohms to 2 megohms
(see standard resistance table)
Resistance Tolerance .....±20 % std.
End Resistance .....1 % or 3 ohms max.
(whichever is greater)
Contact Resistance Variation
.....3 % or 3 ohms
Adjustability
Voltage Divider .....±0.1 %
Rheostat.....±0.2 %
Resolution.....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

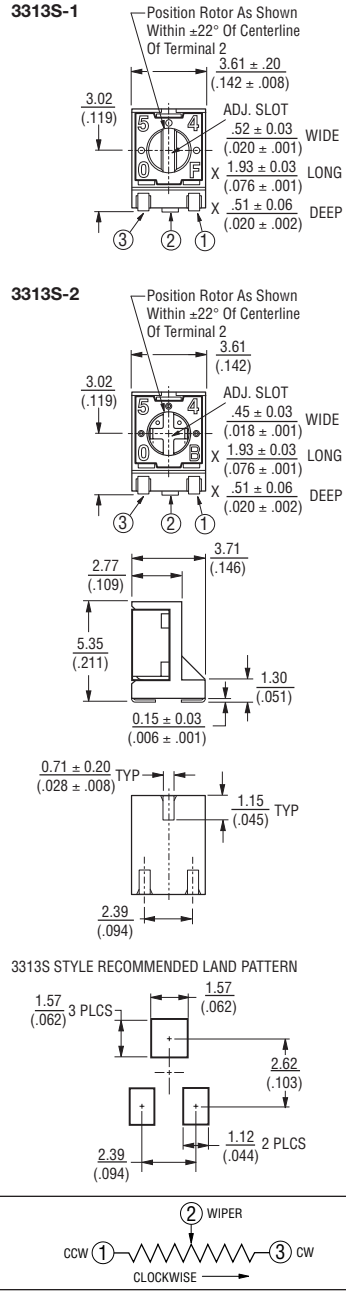
Environmental Characteristics

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.

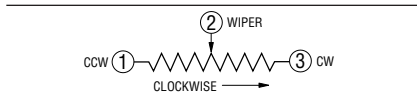
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Product Dimensions





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.

"Trimpot" is a trademark of Bourns, Inc.

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

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

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.

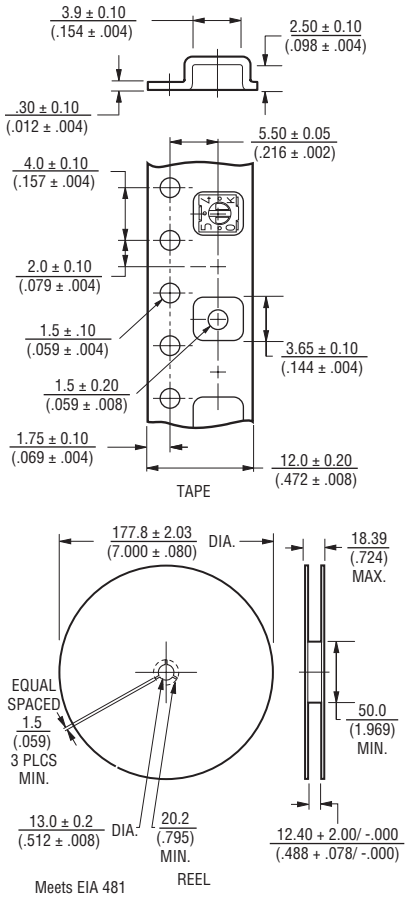
How To Order

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)

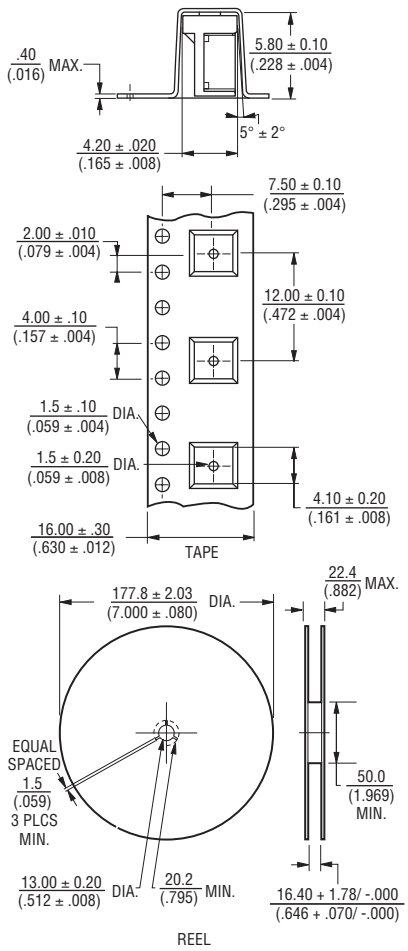
Tape and reel material meets Antistatic ANSI/ ESD 5541-2003 packaging standards.

3313J, X Packaging Specifications



DIMENSIONS: MM (INCHES)
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

3313S Packaging Specifications



BOURNS®

Americas: Tel: +1 951-781-5500 • Email: americus@bourns.com
Mexico: Tel: +52-614-478-0400 • Email: mexicus@bourns.com
Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com
www.bourns.com

REV. 09/24

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