

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 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

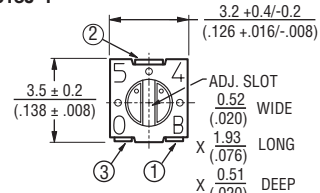
Max. Soldering Exposure	260 °C/5 seconds
Power Rating (200 volts max.)	
70 °C	0.125 watt
125 °C	0 watt
Operating Temp. Range	-55 °C to +125 °C
Temperature Coefficient	
≤100 ohms	±150 ppm/°C;
>100 ohms	±100 ppm/°C
Seal Test	85 °C Fluorinert†
Humidity	MIL-STD 202, Method 106
	(no vibration) TRS ±3 %;
	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

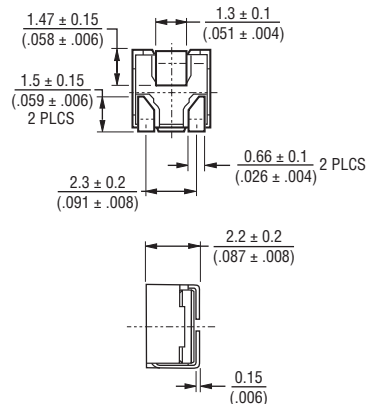
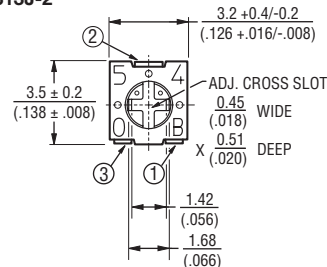
Mechanical Angle	250 ° nom.
Torque	50 g-cm max.
Stop Strength	200 g-cm min.
Pushover Strength ("S" only)	
	1.6 Kilograms (3.5 lbs) minimum
Flammability	U.L. 94V-0
Weight	Approx. 0.01 oz.
Marking	Resistance code and date code
Wiper	50 % (Actual TR) ±10 %
Standard Packaging	
J Style	1000 pcs./7 " reel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

Product Dimensions

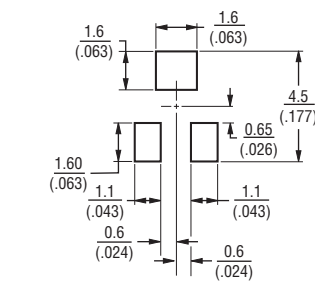
3313J-1



3313J-2

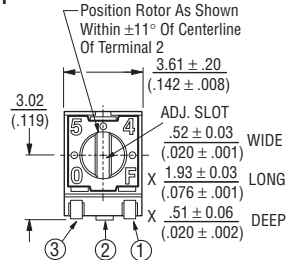


RECOMMENDED LAND PATTERN

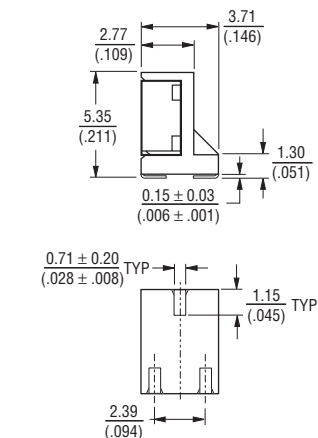
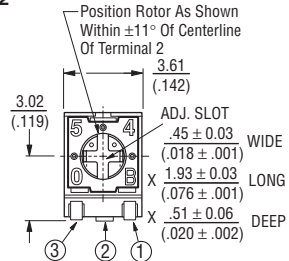


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
TOLERANCES: $\pm \frac{0.25}{(0.010)}$ EXCEPT WHERE NOTED

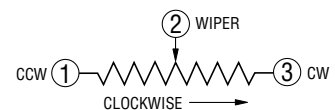
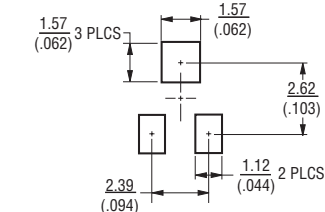
3313S-1



3313S-2



RECOMMENDED LAND PATTERN



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

†"Fluorinert" is a registered trademark of 3M Co.

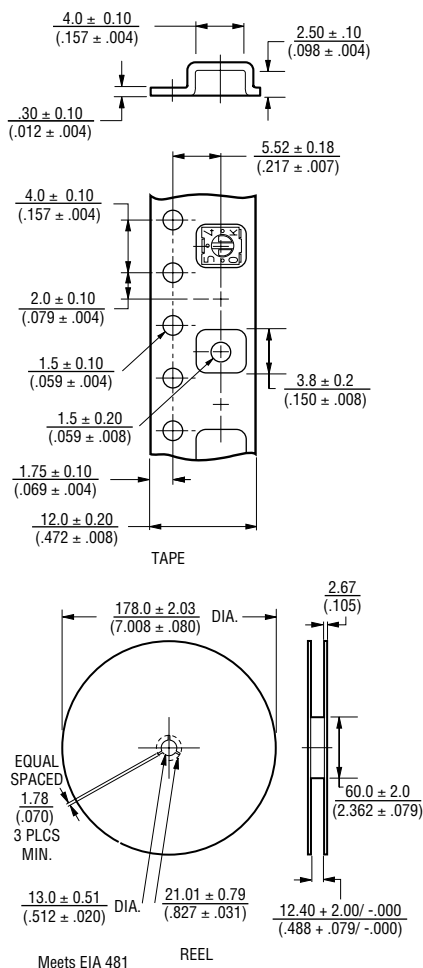
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

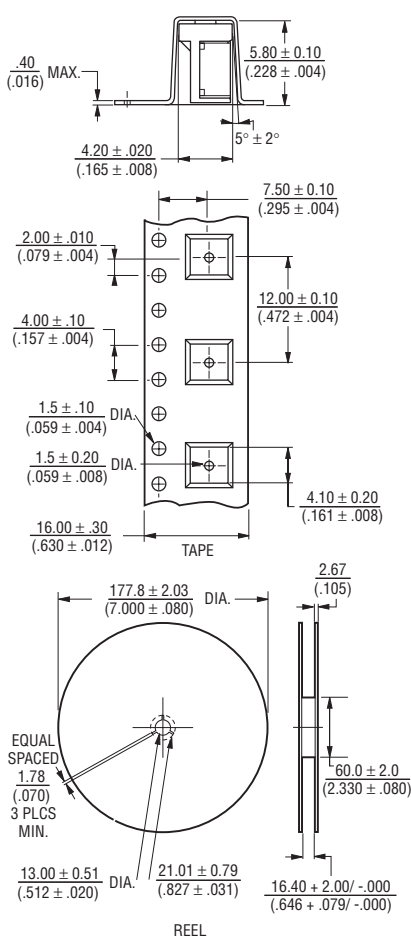
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BOURNS®

3313J Packaging Specifications



3313S Packaging Specifications



Standard Resistance Table

Resistance (Ohms)	Part Marking Code	Resistance Code
10	A1	100
20	U1	200
50	V1	500
100	A2	101
200	U2	201
500	V2	501
1,000	A3	102
2,000	U3	202
5,000	V3	502
10,000	A4	103
20,000	U4	203
50,000	V4	503
100,000	A5	104
200,000	U5	204
500,000	V5	504
1,000,000	A6	105
2,000,000	U6	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 = Single Slot

-2 = Cross Slot

Resistance Code _____

Embossed Tape _____

1000 pcs. / 7 " Reel (J Style)

200 pcs. / 7 " Reel (S Style)

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

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

REV. 10/09

"Trimpot" is a registered trademark of Bourns, Inc.
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