



Features

- Surface Mount 3mm 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

3313 - 3mm 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 Resistance500 vdc.
100 megohms min.
Dielectric Strength
Sea Level500 vac
70,000 Feet.....350 vac
Adjustment Angle220° nom.

Environmental Characteristics

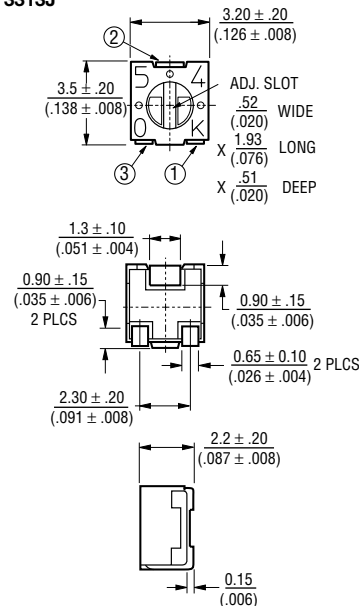
Max. Soldering Exposure
.....260°C/5 seconds
Power Rating (200 volts max.)
70°C0.125 watt
125°C0 watt
Operating Temp. Range...-55°C to +125°C
Temperature Coefficient
.....≤100 ohms ±150ppm/°C;
.....>100 ohms ±100ppm/°C
Seal Test85°C Fluorinert*
HumidityMIL-STD 202, Method 106
(no vibration) TRS ±3%;
IR 10 megohms
Vibration20G TRS ±1%; VRS ±1%
Shock.....100G TRS ±1%; VRS ±1%
Load Life1000 hours
@ 70°C Rated Power; TRS ±3%
Rotational Life100 cycles TRS ±3%
Thermal Shock.....5 cycles
TRS ±2%; VRS ±1%

Physical Characteristics

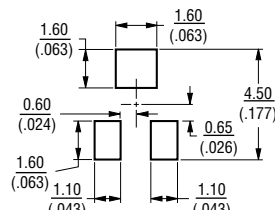
Mechanical Angle250° nom.
Torque50g-cm max.
Stop Strength.....200g-cm min.
Pushover Strength ("S" only)
.....1.6 Kilograms (3.5 lbs) minimum
Flammability.....U.L. 94V-0
Weight.....Approx. 0.01 oz.
MarkingResistance code
and date code
WiperSet at 50% nominal
Standard Packaging1000 pcs./7" reel
Adjustment ToolH-91

*"FLUORINERT" IS A REGISTERED TRADEMARK OF 3M CO.

3313J



RECOMMENDED LAND PATTERN



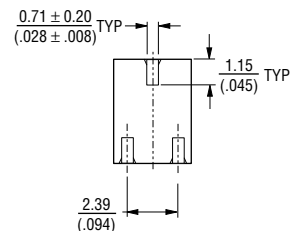
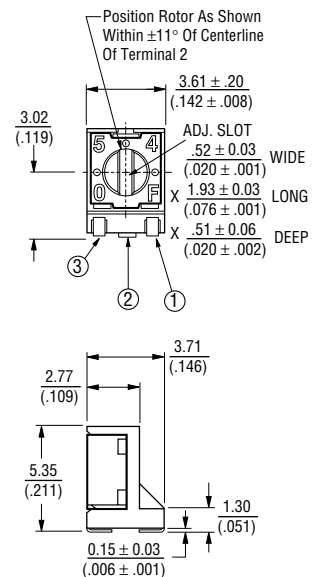
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: METRIC (INCHES)

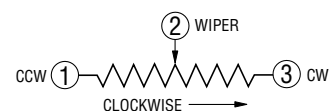
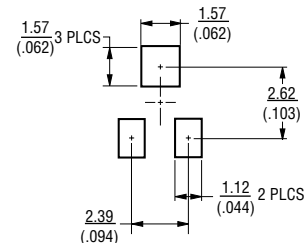
How To Order

Model **3313 J - 1 - 502 E**
Style _____
Standard or Modified Product Indicator _____
-1 = Standard Product
Resistance Code _____
Embossed Tape _____
1000 pcs. / 7" Reel (Standard)

3313S



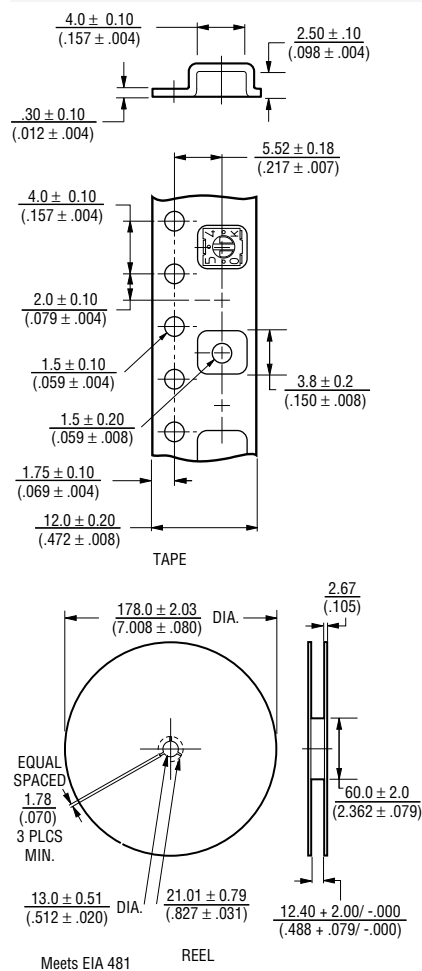
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3313 - 3mm Trimming Potentiometer

BOURNS®

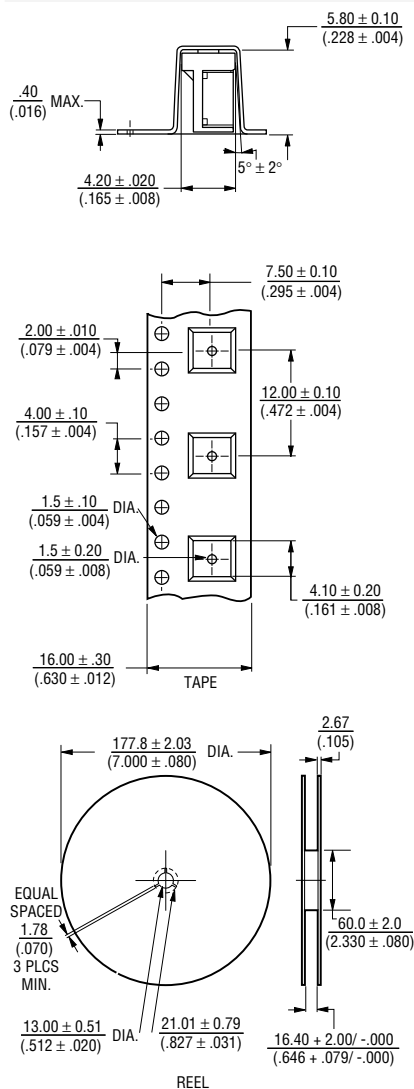
3313 Packaging Specifications



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: $\frac{\text{METRIC}}{\text{(INCHES)}}$

3313S Packaging Specifications



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 values listed in boldface. Special resistances available.

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