## Features

- 9 mm Round / Single-Turn / Cermet Industrial / Open Frame
- Top and single side (front) adjust
- Cross slot adjustment design
- Horizontal and vertical mounting styles
- Dust resistant/splash resistant covers
- PC board stand-offs and retention feature

⚠ This series is currently available but not recommended for new designs.

- RoHS compliant*
- For trimmer applications/processing guidelines, click here

**BOURNS®**

# 3309 - 9 mm Round Trimpot® Trimming Potentiometer

## Electrical Characteristics

Standard Resistance Range
....................100 ohms to 2 megohms
(see standard resistance table)
Resistance Tolerance ........... ±25 % std.
Absolute Minimum Resistance
................. 2 % max. (≤2K = 30 ohms)
Contact Resistance Variation
............................................. 3 % max.
Resolution ................. Essentially infinite
Adjustment Angle ................. 235 ° nom.

## Environmental Characteristics

Power Rating (250 volts max.)
70 °C ......................................0.5 watt
Temperature Range ... -25 °C to +100 °C
Temperature Coefficient ... ±250 ppm/°C
Load Life................1,000 hours 0.5 watt
@ 70 °C (5 % ΔTR)

## Physical Characteristics

Mechanical Angle ..................260 °±10 °
Torque (Operating)............. 5 oz-in. max.
Stop Strength .............. 11.0 oz -in. min.
Terminals .......................Solderable pins
Marking...........................Manufacturer's
trademark, resistance code
Standard Packaging....200 pcs. per bag
Adjustment Tool.............................H-90

**Aqueous cleaning not recommended.**

## Standard Resistance Table

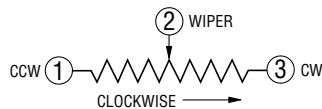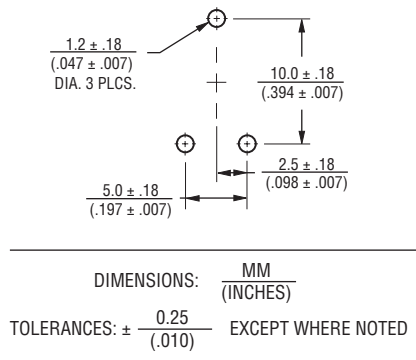| Resistance (Ohms) | Resistance Code |
|---|---|
| 100 | 101 |
| 200 | 201 |
| 500 | 501 |
| **1,000** | **102** |
| **2,000** | **202** |
| **5,000** | **502** |
| **10,000** | **103** |
| **20,000** | **203** |
| **25,000** | **253** |
| **50,000** | **503** |
| **100,000** | **104** |
| 200,000 | 204 |
| 250,000 | 254 |
| 500,000 | 504 |
| 1,000,000 | 105 |
| 2,000,000 | 205 |

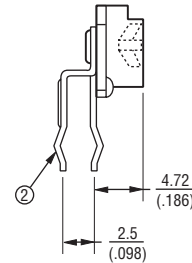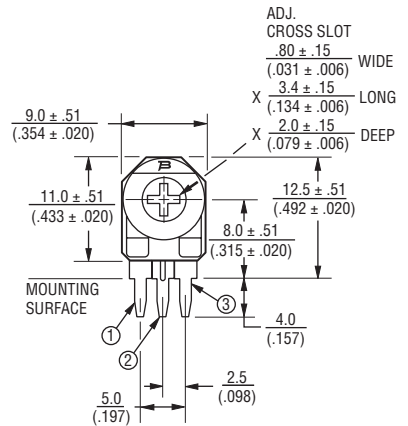Popular distribution resistance values listed in boldface.

## Product Dimensions

**3309P-1 Top Adjust**



9.0 ± .51 (.354 ± .020)
11.5 ± .51 (.453 ± .020)
5.0 (.197)
ADJ. CROSS SLOT
.80 ± .15 (.031 ± .006) WIDE
X 3.4 ± .15 (.134 ± .006) LONG
X 2.0 ± .15 (.079 ± .006) DEEP

① ② ③
2.5 (.098)
5.0 (.197)

6.35 ± .51 (.250 ± .020)
MOUNTING SURFACE
10.34 ± .51 (.407 ± .020)
4.0 (.157)
②

SUGGESTED PWB LAYOUT

1.2 ± .18 (.047 ± .007) DIA. 3 PLCS.
10.0 ± .18 (.394 ± .007)
2.5 ± .18 (.098 ± .007)
5.0 ± .18 (.197 ± .007)

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

② WIPER
CCW ① —/\/\/\— ③ CW
CLOCKWISE →
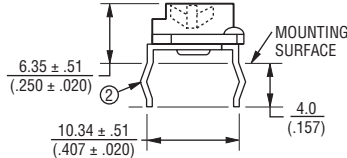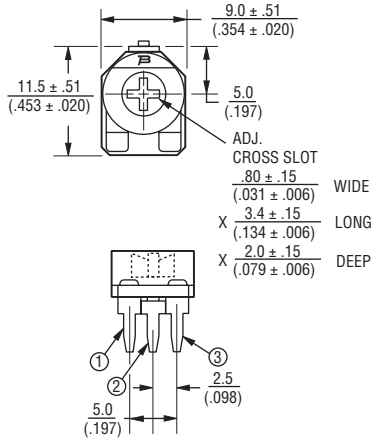
**3309W-1 Single Side (Front) Adjust**



ADJ. CROSS SLOT
.80 ± .15 (.031 ± .006) WIDE
X 3.4 ± .15 (.134 ± .006) LONG
X 2.0 ± .15 (.079 ± .006) DEEP

9.0 ± .51 (.354 ± .020)
11.0 ± .51 (.433 ± .020)
12.5 ± .51 (.492 ± .020)
8.0 ± .51 (.315 ± .020)
MOUNTING SURFACE
① ② ③
4.0 (.157)
2.5 (.098)
5.0 (.197)

4.72 (.186)
②
2.5 (.098)

SUGGESTED PWB LAYOUT

1.20 ± .18 (.047 ± .007) DIA. 3 PLCS.
2.5 ± .18 (.098 ± .007)
2.5 ± .18 (.098 ± .007)
5.0 ± .18 (.197 ± .007)
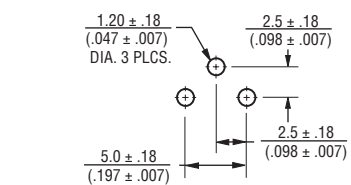
## How To Order

**3309 W - 1 - 103**

Model
Style
P = Top adjust
W = Single side (front) adjust
Rotor Style
-1 = Standard
Resistance Code