

# BOURNS Trimmer Potentiometers

RoHS Compliant This product is RoHS compliant.



## BOURNS 3309W & 3309P SERIES 9MM ROUND SINGLE TURN CERMET TRIMMING POTENTIOMETER

### Features:

- 9 mm Round / Single-Turn / Cermet Industrial Open Frame
- Both sides adjust
- Cross slot and hexagon adjustment designs
- Horizontal and vertical mounting styles
- Dust resistant/splash resistant covers
- PC board stand-offs and retention feature
- Lead free terminals

### Electrical Characteristics:

- Resistance Tolerance:  $\pm 30\%$  standard (tighter tolerance available)
- Absolute Min. Resistance: 1% max. ( $\leq 2k=30\Omega$ )
- Contact Resistance Variation: .3% max.
- Resolution: Essentially infinite
- Adjustment Angle: 235° nominal



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### Environmental Characteristics:

- Power Rating (250 Volts max.): 70°C: 0.2 watt
- Temperature Range: -30°C to +100°C
- Temperature Coefficient:  $\pm 250$  ppm/°C
- Load Life: 1000 hours 0.5 watt @ 70°C (3%)

3309W and 3309P Price Each

	1	50	100	200	500	1000	2000

Value (Ω)	MOUSER STOCK NO.	MOUSER STOCK NO.
100	652-3309W-2-101	652-3309P-2-101
200	652-3309W-2-201	652-3309P-2-201
500	652-3309W-2-501	652-3309P-2-501
1K	652-3309W-2-102	652-3309P-2-102
2K	-----	652-3309P-2-202
5K	652-3309W-2-502	652-3309P-2-502
10K	652-3309W-2-103	652-3309P-2-103
20K	652-3309W-2-203	652-3309P-2-203
25K	652-3309W-2-253	-----
50K	-----	652-3309P-2-503
100K	652-3309W-2-104	652-3309P-2-104
1K	652-3309W-3-102	652-3309P-3-102
2K	652-3309W-3-202	652-3309P-3-202
5K	652-3309W-3-502	-----
10K	652-3309W-3-103	652-3309P-3-103
20K	652-3309W-3-203	652-3309P-3-203
25K	652-3309W-3-253	652-3309P-3-253
50K	652-3309W-3-503	652-3309P-3-503
100K	652-3309W-3-104	652-3309P-3-104

**DIMENSIONS: mm**

**3309W**

Suggested PWB Layout

**3309W-3 Both Sides Adjust Hex**

**3309W-1 Single Side Front Adjust Cross Slot**

**3309W-2 Both Sides Adjust Cross Slot**

**3309P**

Suggested PWB Layout

CCW (1) WIPER (2) CW (3)  
CLOCKWISE

**3309P-3 Both Sides Adjust Hex**

**3309P-1 Single Side Front Adjust Cross Slot**

**3309P-2 Both Sides Adjust Cross Slot**

## BOURNS 3319W & 3319P SERIES 9MM ROUND SINGLE TURN CARBON TRIMMING POTENTIOMETER

### Features:

- 9 mm Round / Single Turn / Carbon Commercial / Open Frame
- Both sides adjust
- Cross slot and hexagon adjustment designs
- Horizontal and vertical mounting styles
- Dust resistant/splash resistant covers
- PC board stand-offs and retention feature
- Lead free terminals

### Electrical Characteristics:

- Resistance Tolerance:  $\pm 25\%$  standard
- End Resistance: 2% max. ( $\leq 2k=30\Omega$ )
- Contact Resistance Variation: 3% max.
- Resolution: Infinite
- Adjustment Angle: 235° nominal



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### Environmental Characteristics:

- Power Rating (200 Volts max.): 70°C: 0.2 watt
- Temperature Range: -25°C to +100°C

- Temperature Coefficient:  $\pm 1000$  ppm/°C
- Load Life: 1000 hours 0.2 watt @ 70°C

3319W and 3319P Price Each

	1	50	100	200	500	1000	2000

Value (Ω)	MOUSER STOCK NO.	MOUSER STOCK NO.
100	652-3319W-2-101	652-3319P-2-101
200	652-3319W-2-201	652-3319P-2-201
500	652-3319W-2-501	652-3319P-2-501
1K	652-3319W-2-102	652-3319P-2-102
5K	-----	652-3319P-2-502
20K	-----	652-3319P-2-203
50K	-----	652-3319P-2-503
100K	652-3319W-2-104	652-3319P-2-104
100	652-3319W-3-101	652-3319P-3-101
200	652-3319W-3-201	652-3319P-3-201
500	652-3319W-3-501	652-3319P-3-501
1K	652-3319W-3-102	652-3319P-3-102
2K	652-3319W-3-202	652-3319P-3-202
5K	652-3319W-3-502	652-3319P-3-502
10K	652-3319W-3-103	-----
20K	652-3319W-3-203	652-3319P-3-203
50K	652-3319W-3-503	-----
100K	652-3319W-3-104	652-3319P-3-104

**DIMENSIONS: mm**

**3319W**

Suggested PWB Layout

CCW (1) WIPER (2) CW (3)  
CLOCKWISE

**3319W-3 Both Sides Adjust Hex**

**3319W-2 Both Sides Adjust Cross Slot**

**3319P**

Suggested PWB Layout

CCW (1) WIPER (2) CW (3)  
CLOCKWISE

**3319P-3 Both Sides Adjust Hex**

**3319P-2 Both Sides Adjust Cross Slot**