



BOURNS®

Features

- Surface Mount / Single Turn / Cermet Industrial / Sealed
- Compatible with surface mount manufacturing processes
- Compatible with popular vacuum pick-and-place equipment
- J-hook, gull-wing & pinned configurations

- Side adjust available
- Meets EIA/EIAJ/IPC/VECI SMD standard trimmer designs
- RoHS compliant* - see [processing information](#) on lead free surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)
- AEC-Q200 Qualified Grade 1

3314 - 4 mm Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range	..... 10 ohms to 2 megohms (see standard resistance table)
Resistance Tolerance	..... $\pm 20\%$ std. (tighter tolerance available)
End Resistance	..... 1 % or 2 ohms max. (whichever is greater)
Contact Resistance Variation	..... 3 % or 3 ohms
Resolution	..... Infinite
Insulation Resistance	..... 500 vdc. 100 megohms min.
Dielectric Strength	.....
Sea Level	..... 500 vac (1 minute)
Adjustment Angle	..... 210 ° nom.

Environmental Characteristics

Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style R)	.....
70 °C	..... 0.25 watt
125 °C	..... 0 watt
Temperature Range	... -55 °C to +125 °C
Temperature Coefficient	... ± 100 ppm/°C
Seal Test	..... 85 °C Fluorinert®/60 seconds
Humidity	..... 90-98 % RH, 10 cycles, 240 hours
..... TRS ± 2 %; IR 10 megohms	
Vibration	..... 20 G TRS ± 1 %; VRS ± 1 %
Shock	..... 100 G TRS ± 1 %; VRS ± 1 %
Load Life	..... (@ 70 °C Rated Power 1000 Hours) TRS ± 3 %
.....	Rotational Life 100 cycles TRS ± 3 %
Thermal Shock	..... 5 cycles TRS ± 2 %; VRS ± 1 %

Physical Characteristics

Mechanical Angle	..... 240 ° nom.
Torque	..... 180 g-cm max.
Stop Strength	..... 300 g-cm min.
Pushover Strength (S & Z Style)	..... 1.6 kilograms (3.5 lbs.) min.
Weight	..... Approximately 0.01 oz.
Marking	..... Manufacturer's code, resistance code and date code
Wiper	..... 50 % (Actual TR) ± 10 %
Flammability	..... U.L. 94V-0
Standard Packaging	.....
J, G and R	..... 500 pcs./7" reel (MSL-1)
S and Z	..... 200 pcs./7" reel (MSL-1)
H	..... 100 pcs./tube
Adjustment Tool	..... H-90



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

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

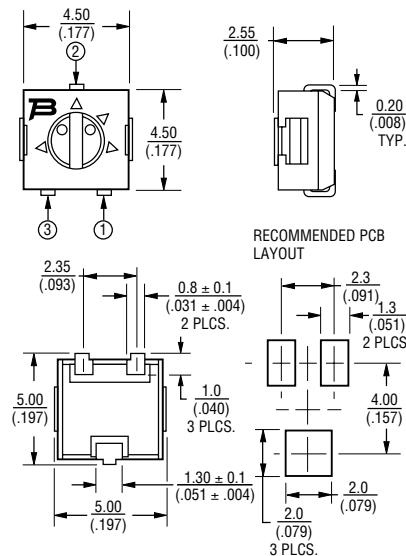
"Trimpot" is a trademark of Bourns, Inc. †"Fluorinert" is a registered trademark of 3M Co.

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

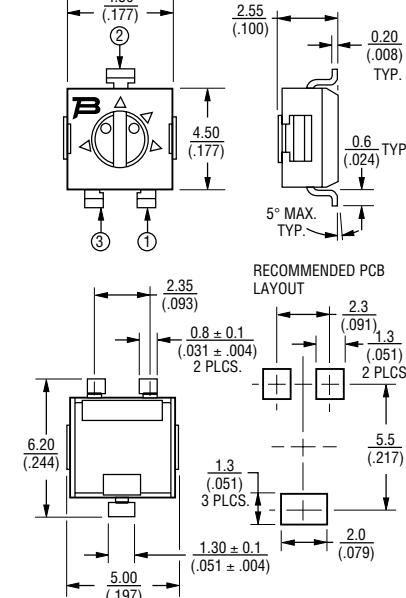
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Product Dimensions

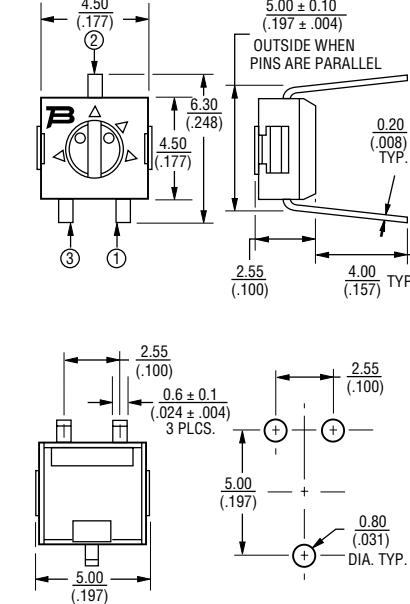
3314J-1



3314G-1



3314H-1



3314J-1, G-1, R-1, H-1
(Bourns Marking, Straight Slot)

COMMON DIMENSIONS -

ALL PIN STYLES:	STRAIGHT
	ADJ. SLOT
	2.45 (.096) LONG
	X .51 (.020) WIDE
	X .51 (.020) DEEP

3314J-2, G-2, R-2, H-2
(Bourns Marking, Cross Slot)

COMMON DIMENSIONS -

ALL PIN STYLES:	CROSS
	ADJ. SLOT
	2.41 (.095) LONG
	X .51 (.020) WIDE
	X .51 (.020) DEEP

3314J-3, G-3, R-3, H-3
(Reverse Marking, Straight Slot)

COMMON DIMENSIONS -

ALL PIN STYLES:	STRAIGHT
	ADJ. SLOT
	2.45 (.096) LONG
	X .51 (.020) WIDE
	X .51 (.020) DEEP

3314J-4, G-4, R-4, H-4
(Reverse Marking, Cross Slot)

COMMON DIMENSIONS -

ALL PIN STYLES:	CROSS
	ADJ. SLOT
	2.41 (.095) LONG
	X .51 (.020) WIDE
	X .51 (.020) DEEP

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

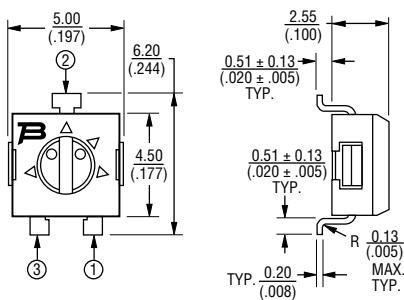
TOLERANCES: $\pm \frac{0.30}{.012}$ EXCEPT WHERE NOTED

3314 - 4 mm Square Trimpot® Trimming Potentiometer

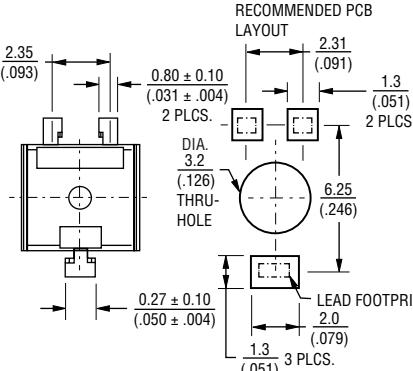
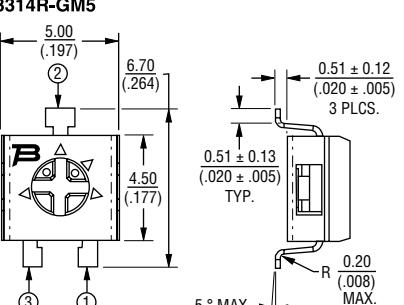
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Product Dimensions

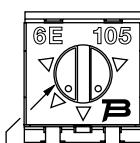
3314R-1



3314R-GM5

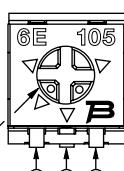


3314S-1
(Bourns Marking, Straight Slot)



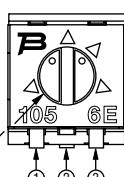
ROTOR POSITIONED AS SHOWN
WITHIN ± 22 ° OF CENTERLINE
OF TERMINAL 2

3314S-2
(Bourns Marking, Cross Slot)



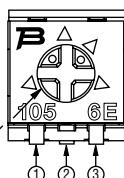
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WITHIN ± 22 ° OF CENTERLINE
OF TERMINAL 2

3314S-3
(Reverse Marking, Straight Slot)



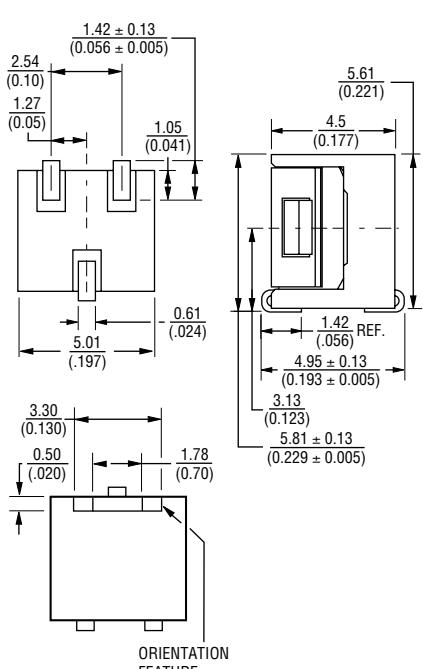
ROTOR POSITIONED AS SHOWN
WITHIN ± 22 ° OF CENTERLINE
OF TERMINAL 2

3314S-4
(Reverse Marking, Cross Slot)

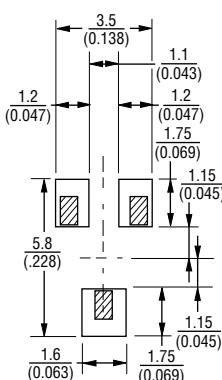


ROTOR POSITIONED AS SHOWN
WITHIN ± 22 ° OF CENTERLINE
OF TERMINAL 2

3314S
Common Dimensions



RECOMMENDED PCB LAYOUT



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

TOLERANCES: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

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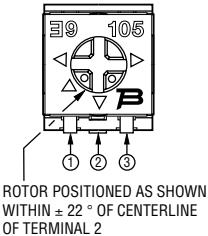
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3314 - 4 mm Square Trimpot® Trimming Potentiometer

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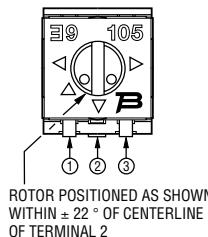
Product Dimensions

3314Z-1(RC) E
(Cross Slot)



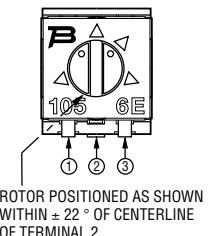
ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314Z-GA4-(RC) E
(Straight Slot)



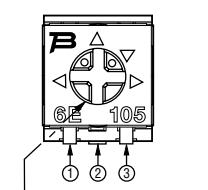
ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314Z-3
(Reverse Marking, Straight Slot)



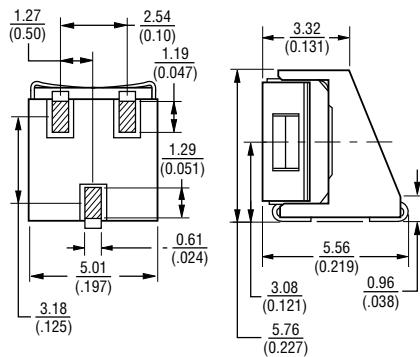
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WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314Z-4-(RC) E
(Reverse Marking, Cross Slot)

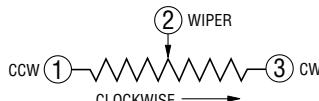
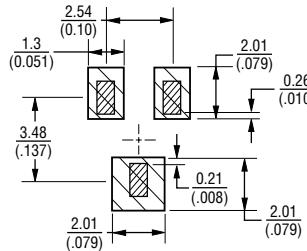


ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314Z Common Dimensions



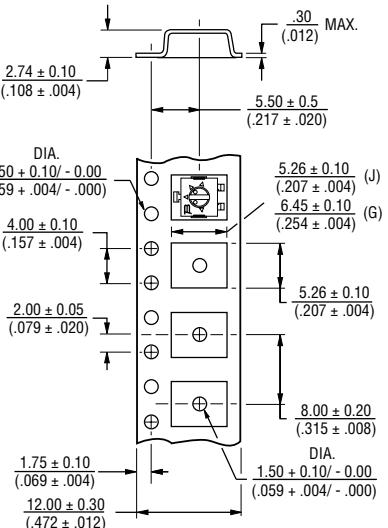
RECOMMENDED PCB LAYOUT



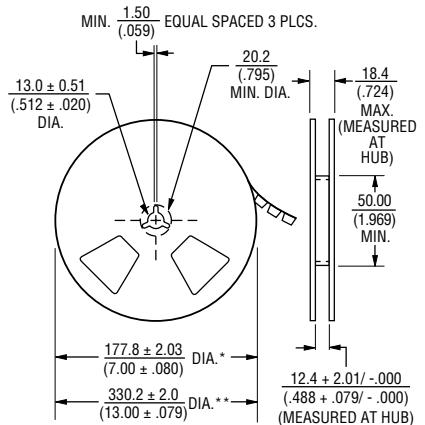
Packaging Specifications

(J, G Styles)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"
(See How To Order chart for further information.)

Meets EIA specification 481.

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

TOLERANCES: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

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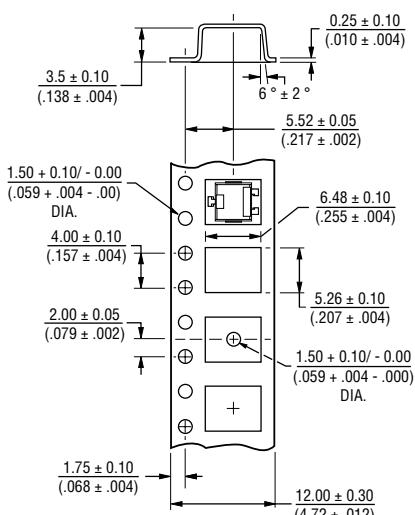
3314 - 4 mm Square Trimpot® Trimming Potentiometer

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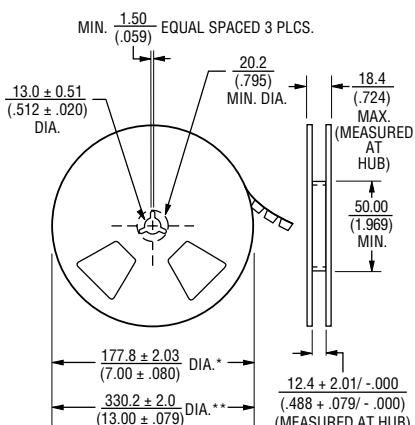
Packaging Specifications

(R Style)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"
(See How To Order chart for further information.)

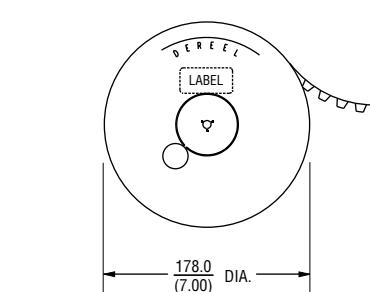
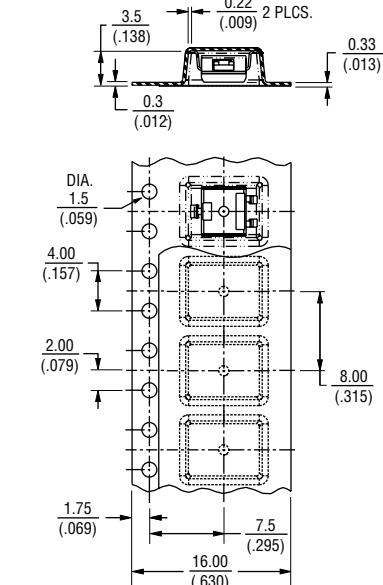
Meets EIA specification 481.

**DIMENSIONS: MM
(INCHES)**

**TOLERANCES: ± 0.30
(.012)** EXCEPT WHERE NOTED

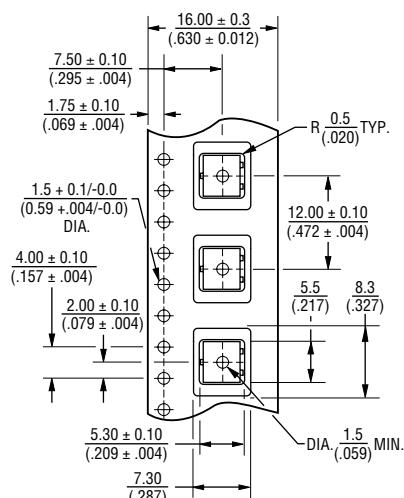
(R-GM5 Style)

TAPE

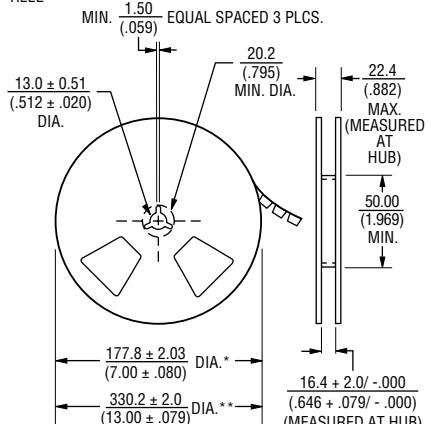


(S Style)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"
(See How To Order chart for further information.)

Meets EIA specification 481.

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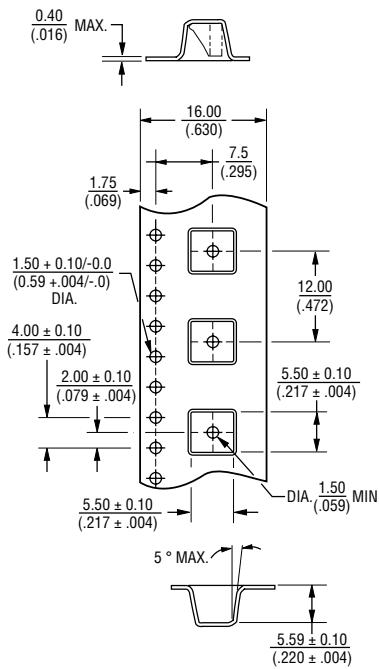
3314 - 4 mm Square Trimpot® Trimming Potentiometer

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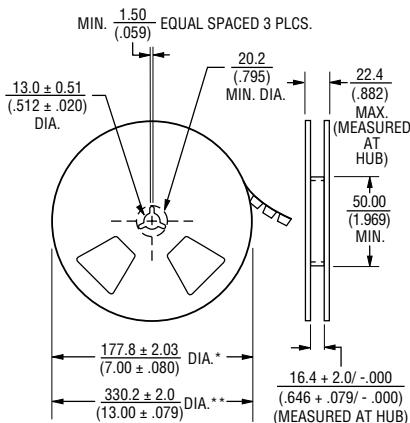
Packaging Specifications

(Z Style)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"

(See How To Order chart for further information.)

Meets EIA specification 481.

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$
TOLERANCES: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

REV. 08/28/19

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How To Order

3314 J - 1 - 502 E

Model _____
Style _____
Standard or Modified Product Indicator (Styles J, G, H & S) _____
-1 = Single Slot
-2 = Cross Slot
-3 = Single Slot w/Reverse Marking
-4 = Cross Slot w/Reverse Marking
Product Indicator (Style R only)
-GM5 = Cross Slot w/Extended Lead Frame
-1 = Single Slot
-2 = Cross Slot
-3 = Single Slot w/Reverse Marking
-4 = Cross Slot w/Reverse Marking
Product Indicator (Style Z only)
-GA4 = Single Slot
-1 = Cross Slot
-3 = Single Slot w/Reverse Marking
-4 = Cross Slot w/Reverse Marking
Resistance Code _____

Embossed Tape Designator (MSL-1)**
E = Styles J, G and R: 500 pcs./7" reel
Styles S and Z: 200 pcs./7" reel
G = Styles J and G: 3000 pcs./13" reel
Style R: 2500 pcs./13" reel
Styles S and Z: 1000 pcs./13" reel
**Style H is available in tube packaging only.

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

Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
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 values listed in boldface.
Special resistances available.

BOURNS®

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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

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