

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
- For trimmer applications/processing guidelines, click here
- AEC-Q200 Qualified Grade 1

3314 – 4 mm Square Trimpot® Trimming Potentiometer

Additional Information

Click these links for more information:











SAMPLES

CONTACT

Electrical Characteristics

Standard Resistance Range

...... 10 ohms to 2 megohms (see standard resistance table) Resistance Tolerance±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 VDC100 megohms min.

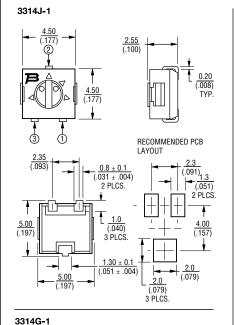
Dielectric Strength

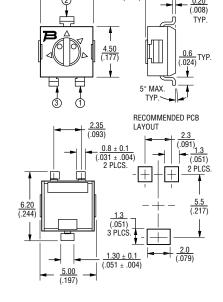
Sea Level 500 VAC (1 minute) Adjustment Angle...... 210 ° nom.

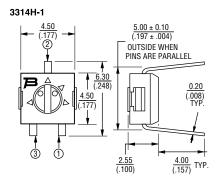
Environmental Characteristics

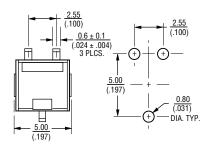
Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style R) 70 °C 0.25 watt 125 °C 0 watt Temperature Range.... -55 °C to +125 °C Temperature Coefficient ±100 PPM/°C Seal Test...... 85 °C / 60 seconds Humidity......90-98 % RH, 10 cycles, 240 hours TRS ±2 %; IR 10 megohms Vibration 20 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 Shock5 cycles TRS ±2 %; VRS ±1 %

Product Dimensions



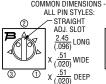


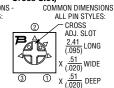




3314J-1, G-1, R-1, H-1 (Bourns Marking,

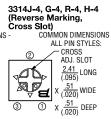
3314J-2, G-2, R-2, H-2 (Bourns Marking, Cross Slot) Straight Slot) COMMON DIMENSIONS ALL PIN STYLES - STRAIGHT





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 (.020) WIDE X (.020) DEEP



MM DIMENSIONS: (INCHES) EXCEPT WHERE NOTED TOLERANCES: ±



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.

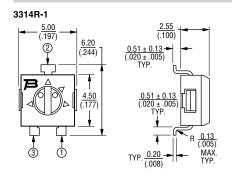
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

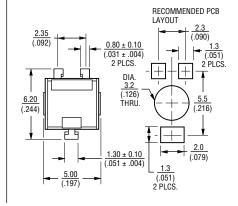
3314 – 4 mm Square Trimpot® Trimming Potentiometer **BOURNS**

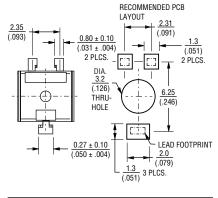
Physical Characteristics

Mechanical Angle 240 ° nom.
Torque180 g-cm max.
Stop Strength300 g-cm min.
Pushover Strength (S & Z Style)
1.6 kilograms (3.5 lbs.) min.
Weight Approximately 0.01 oz.
MarkingManufacturer's code,
resistance code and date code
Wiper 50 % (Actual TR) ±10 %
FlammabilityU.L. 94V-0
Standard Packaging
J, G and R 500 pcs./7 " reel (MSL-1)
S and Z200 pcs./7 " reel (MSL-1)
H100 pcs./tube
Adjustment ToolH-90
Storage Condition
40 °C may / 70 % R H may

Product Dimensions







DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$ TOLERANCES: $\pm \frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

3314 – 4 mm Square Trimpot® Trimming Potentiometer **BOURNS**

Product Dimensions

3314S-1 (Bourns Marking, Straight Slot)



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

3314S-2 (Bourns Marking, Cross Slot)



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

3314S-3 (Reverse Marking, Straight Slot)



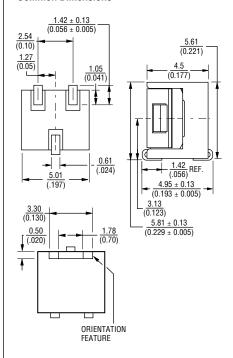
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314S-4 (Reverse Marking, Cross Slot)

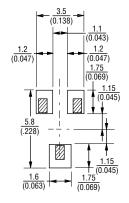


ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314S Common Dimensions



RECOMMENDED PCB LAYOUT



DIM	ENSIONS	S: MM (INCHES)
TOLERANCES: ±	0.25 (.010)	EXCEPT WHERE NOTED

3314 – 4 mm Square Trimpot® Trimming Potentiometer

Product Dimensions

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



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

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



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

3314Z-3 (Reverse Marking, Straight Slot)



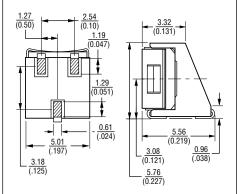
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

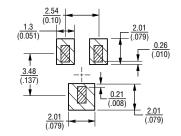


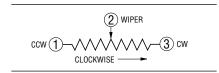
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314Z Common Dimensions



RECOMMENDED PCB LAYOUT

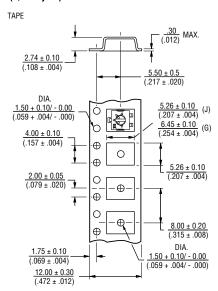




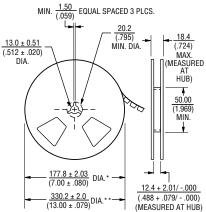
MM DIMENSIONS: (INCHES) 0.30 EXCEPT WHERE NOTED TOLERANCES: ±

Packaging Specifications

(J, G Styles)







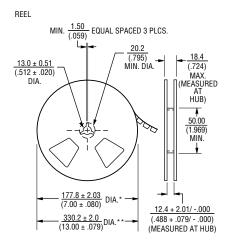
- Embossed Tape Designator "E'
- ** Embossed Tape Designator "G"
 (See How To Order chart for further information.)

Meets EIA specification 481.

3314 – 4 mm Square Trimpot® Trimming Potentiometer

Packaging Specifications

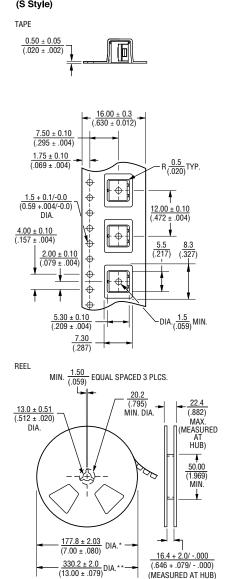
(R Style) TAPE $\frac{0.25 \pm 0.10}{(.010 \pm .004)}$ 3.5 ± 0.10 $(.138 \pm .004)$ $\frac{5.52 \pm 0.05}{(.217 \pm .002)}$ 1.50 + 0.10/ - 0.00 Ò (.059 + .004 - .00) 6.48 ± 0.10 DIA. $(.255 \pm .004)$ \circ 4.00 ± 0.10 \oplus $\overline{(.157 \pm .004)}$ Ф 5.26 ± 0.10 $\frac{2.00 \pm 0.05}{(.079 \pm .002)}$ (.207 ± .004) 0 ⊕_ Ф 1.50 + 0.10/ - 0.00 (.059 + .004 - .000) 0 DIA. + Ф 1.75 ± 0.10 $(.068 \pm .004)$ 12.00 ± 0.30 (4.72 ± .012)



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

Meets EIA specification 481.

(R-GM5 Style) (S Style) TAPE TAPE $\frac{0.22}{(.009)}$ 2 PLCS. (.138) 0.33 (.013) 0.3 (.012) (.059) 4.00 2.00 (.079) 8.00 DIA. (.315)(.069) (.295)16.00 LABEL REEL ممم Q $\frac{13.0 \pm 0.51}{(.512 \pm .020)}$ DIA. 178.0 (7.00) MM DIMENSIONS: 0.30 TOLERANCES: ± EXCEPT WHERE NOTED



* Embossed Tape Designator "G"

(See How To Order chart for further information.) Meets EIA specification 481.

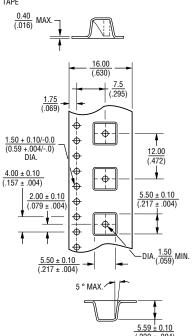
Embossed Tape Designator "E'

3314 – 4 mm Square Trimpot® Trimming Potentiometer

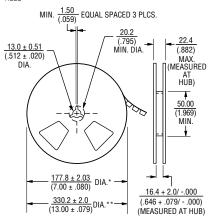
Packaging Specifications

(Z Style)

TAPE



REEL



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

Meets EIA specification 481.

DIMENSIONS: (INCHES) TOLERANCES: ± EXCEPT WHERE NOTED

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

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.

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REV. 07/24

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

^{**}Style H is available in tube packaging only.

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3314H-1-104 3314H-1-101 3314H-1-105 3314H-1-102 3314H-1-103 3314J-1-754E 3314J-1-504 3314H-1-501 3314J-1-500 3314H-1-503 3314H-1-502 3314G-1-254E 3314Z-GA4-203E 3314Z-GA4-205E 3314Z-GA4-201E 3314Z-GA4-103E 3314Z-GA4-101E 3314G-1-504E 3314G-2-503E 3314J-2-503G 3314J-2-503G 3314J-2-501E 3314J-2-503E 3314J-2-503E 3314G-2-504E 3314J-2-503E 3314J-2-504E 3314J-2-503E 3314J-2-504E 3314J-1-504E 3314J-1-503E 3314Z-1-504E 3314J-1-503E 3314Z-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-201E 3314Z-1-201E 3314J-1-104E 3314J-1-203E 3314J-1-203E 3314J-3-203E 3314J-3-203E 3314J-3-203E 3314S-1-203E 3314S-1-203E 3314S-1-104E 3314S