

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:











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

Contact Nesistance	variation
	3 % or 3 ohms
Resolution	Infinite
Insulation Resistance	e 500 VDC
	. 100 megohms min.
Dielectric Strength	-

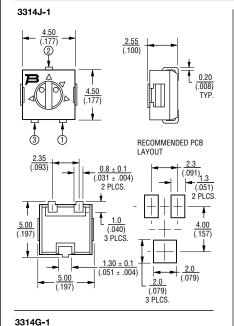
Sea Level 500 VAC (1 minute)

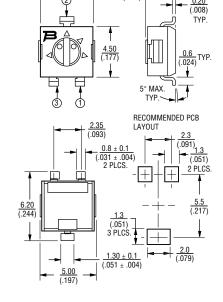
Adjustment Angle...... 210 ° nom.

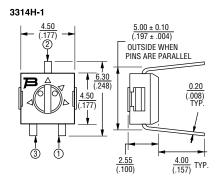
Environmental Characteristics

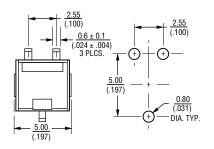
Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style R) 70 °C 0.25 watt 125 °C 0 watt Temperature Range.... -55 °C to +125 °C Temperature Coefficient ±100 PPM/°C Seal Test...... 85 °C / 60 seconds Humidity......90-98 % RH, 10 cycles, 240 hours TRS ±2 %; IR 10 megohms Vibration 20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

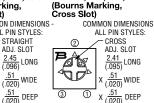
Straight Slot) COMMON DIMENSIONS ALL PIN STYLES

- STRAIGHT

ADJ. SLOT

.<u>.51</u> WIDE

X (.020) DEEP

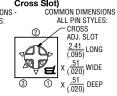


3314J-2, G-2, R-2, H-2

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 <u>(.020)</u> WIDE X <u>..51</u> 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.

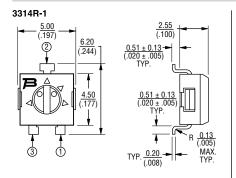
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

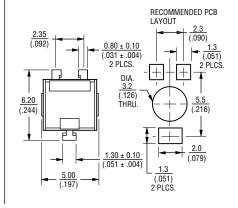
3314 – 4 mm Square Trimpot® Trimming Potentiometer **BOURNS**

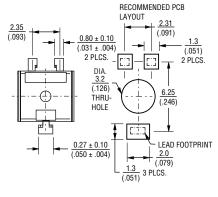
Physical Characteristics

Mechanical Angle 240 ° nom. 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 % FlammabilityU.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 Storage Condition40 °C max. / 70 % R.H. max.

Product Dimensions







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



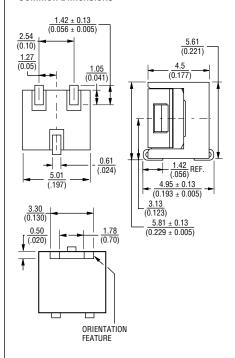
ROTOR POSITIONED AS SHOWN WITHIN \pm 22 $^{\circ}$ OF CENTERLINE OF TERMINAL 2

3314S-4 (Reverse Marking, Cross Slot)

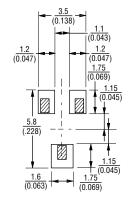


ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314S Common Dimensions



RECOMMENDED PCB LAYOUT



DIM	ENSIONS	S: MM (INCHES)
	0.05	(IIVONES)
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)



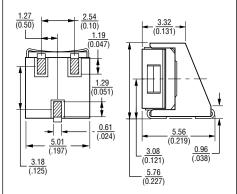
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

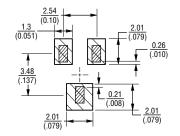


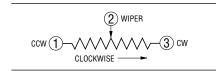
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314Z Common Dimensions



RECOMMENDED PCB LAYOUT



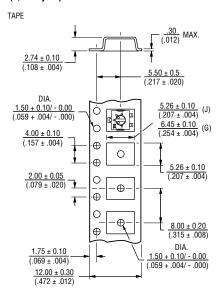


MM DIMENSIONS: (INCHES)

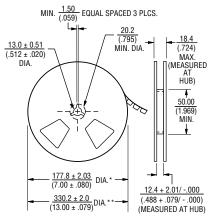
0.30 EXCEPT WHERE NOTED TOLERANCES: ±

Packaging Specifications

(J, G Styles)







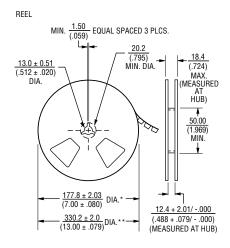
- Embossed Tape Designator "E'
- ** Embossed Tape Designator "G"
 (See How To Order chart for further information.)

Meets EIA specification 481.

3314 – 4 mm Square Trimpot® Trimming Potentiometer

Packaging Specifications

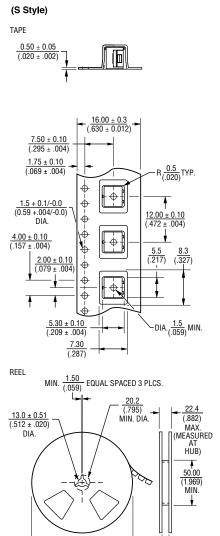
(R Style) TAPE $\frac{0.25 \pm 0.10}{(.010 \pm .004)}$ 3.5 ± 0.10 $(.138 \pm .004)$ $\frac{5.52 \pm 0.05}{(.217 \pm .002)}$ 1.50 + 0.10/ - 0.00 Ó (.059 + .004 - .00) 6.48 ± 0.10 DIA. $(.255 \pm .004)$ \circ 4.00 ± 0.10 \oplus $\overline{(.157 \pm .004)}$ Ф 5.26 ± 0.10 $\frac{2.00 \pm 0.05}{(.079 \pm .002)}$ (.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) TAPE $\frac{0.22}{(.009)}$ 2 PLCS. (.138) 0.33 (.013) 0.3 (.012) (.059) 4.00 2.00 (.079) 8.00 (.315)(.069) (.295)16.00 LABEL ممم Q 178.0 (7.00) MM DIMENSIONS: 0.30 TOLERANCES: ± EXCEPT WHERE NOTED



Embossed Tape Designator "E'

 $(7.00 \pm .080)$

 $-\frac{330.2 \pm 2.0}{(13.00 \pm .079)}$ DIA.

* Embossed Tape Designator "G"

(See How To Order chart for further information.)

16.4 + 2.0/ -.000 (.646 + .079/ - .000)

(MEASURED AT HUB)

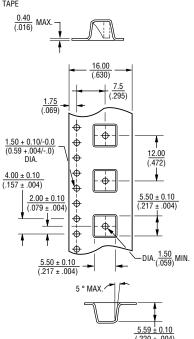
Meets EIA specification 481.

3314 – 4 mm Square Trimpot® Trimming Potentiometer

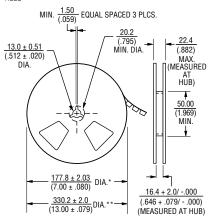
Packaging Specifications

(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	Resistance
(Ohms)	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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REV. 07/24

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

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