

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

| Ouritable Modistance V | anation |
|------------------------|------------------|
| | 3 % or 3 ohms |
| Resolution | Infinite |
| Insulation Resistance | 500 VDC |
| | 100 megohms min. |
| Dielectric Strength | · · |
| | =00.140.44 : 4.1 |

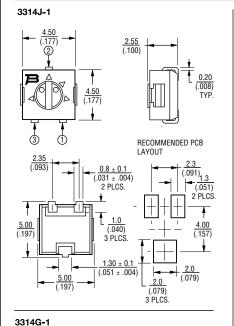
Sea Level 500 VAC (1 minute)

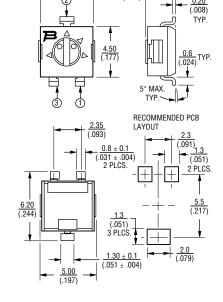
Adjustment Angle...... 210 ° nom.

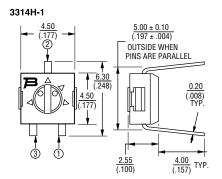
Environmental Characteristics

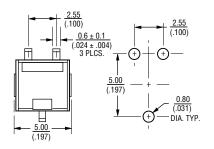
Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style R) 70 °C 0.25 watt 125 °C 0 watt Temperature Range.... -55 °C to +125 °C Temperature Coefficient ±100 PPM/°C Seal Test...... 85 °C / 60 seconds Humidity......90-98 % RH, 10 cycles, 240 hours TRS ±2 %; IR 10 megohms Vibration 20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

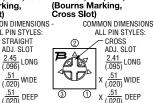
Straight Slot) COMMON DIMENSIONS ALL PIN STYLES

- STRAIGHT

ADJ. SLOT

.<u>.51</u> WIDE

X (.020) DEEP

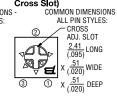


3314J-2, G-2, R-2, H-2

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.

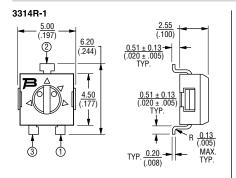
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

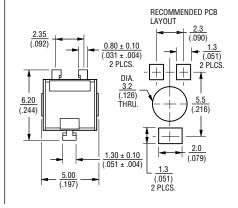
3314 – 4 mm Square Trimpot® Trimming Potentiometer **BOURNS**

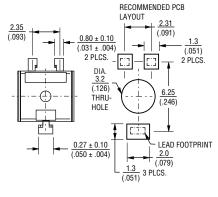
Physical Characteristics

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)



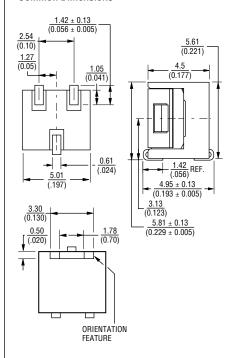
ROTOR POSITIONED AS SHOWN WITHIN \pm 22 $^{\circ}$ OF CENTERLINE OF TERMINAL 2

3314S-4 (Reverse Marking, Cross Slot)

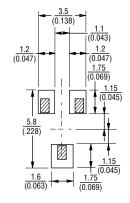


ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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)



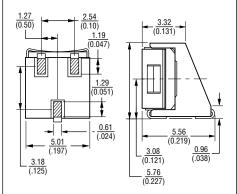
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

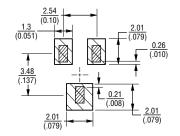


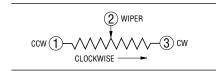
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314Z Common Dimensions



RECOMMENDED PCB LAYOUT



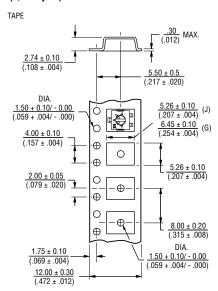


MM DIMENSIONS: (INCHES)

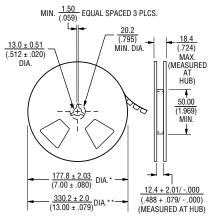
0.30 EXCEPT WHERE NOTED TOLERANCES: ±

Packaging Specifications

(J, G Styles)







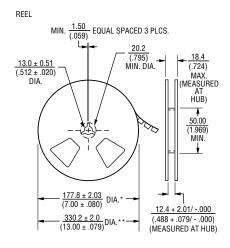
- Embossed Tape Designator "E'
- ** Embossed Tape Designator "G"
 (See How To Order chart for further information.)

Meets EIA specification 481.

3314 – 4 mm Square Trimpot® Trimming Potentiometer

Packaging Specifications

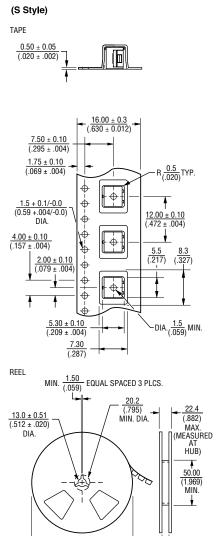
(R Style) TAPE $\frac{0.25 \pm 0.10}{(.010 \pm .004)}$ 3.5 ± 0.10 $(.138 \pm .004)$ $\frac{5.52 \pm 0.05}{(.217 \pm .002)}$ 1.50 + 0.10/ - 0.00 Ó (.059 + .004 - .00) 6.48 ± 0.10 DIA. $(.255 \pm .004)$ \circ 4.00 ± 0.10 \oplus $\overline{(.157 \pm .004)}$ Ф 5.26 ± 0.10 $\frac{2.00 \pm 0.05}{(.079 \pm .002)}$ (.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)

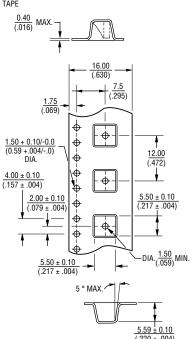
Meets EIA specification 481.

3314 – 4 mm Square Trimpot® Trimming Potentiometer

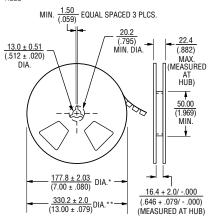
Packaging Specifications

(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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