

Distributed by:

JAMECO[®]
ELECTRONICS

www.Jameco.com ♦ 1-800-831-4242

The content and copyrights of the attached
material are the property of its owner.

Jameco Part Number 854284

*RoHS COMPLIANT



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 and 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

3314 - 4 mm Square Trimming Potentiometer

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 Resistance500 vdc.
100 megohms min.
Dielectric Strength
Sea Level.....500 vac (1 minute)
Adjustment Angle210 ° nom.

Environmental Characteristics

Power Rating (300 volts max.)
70 °C.....0.25 watt
125 °C.....0 watt
Temperature Range-55 °C to +125 °C
Temperature Coefficient±100 ppm/°C
Humidity90-98 % RH,
10 cycles, 240 hours
TRRS ±2 %; IR 10 megohms
Vibration20 G TRRS ±1 %; VRS ±1 %
Shock.....100 G TRRS ±1 %; VRS ±1 %
Load Life
.....(@ 70 °C Rated Power 1000 Hours)
TRRS ±3 %
Rotational Life100 cycles
TRRS ±3 %
Thermal Shock5 cycles
TRRS ±2 %; VRS ±1 %

Physical Characteristics

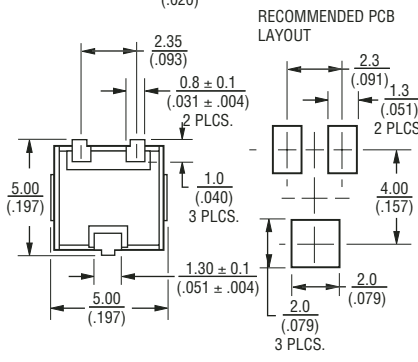
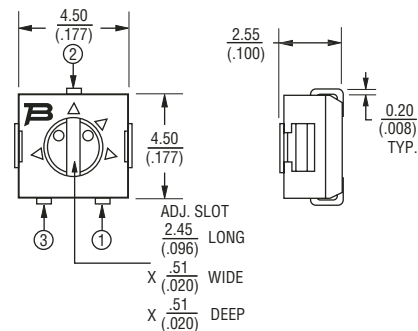
Mechanical Angle240 ° nom.
Torque180 g-cm typical
Stop Strength.....300 g-cm typical
Pushover Strength (Z Style)
.....2 kilograms (4.4 lbs.) minimum
WeightApproximately 0.01 oz.
MarkingManufacturer's code,
resistance code and date code
Wiper.....50 % (Actual TR) ±10 %
Flammability.....U.L. 94V-0
Standard Packaging
J, G and R500 pcs./7 " reel
S and Z.....200 pcs./7 " reel
H.....100 pcs./tube
Adjustment ToolH-90

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

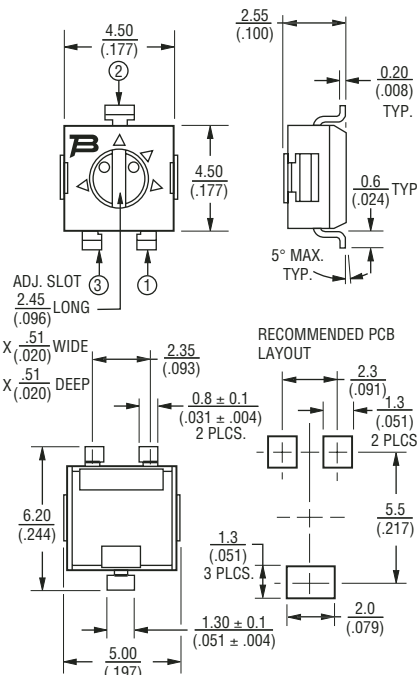
DIMENSIONS ARE: $\frac{\text{MM}}{(\text{INCHES})}$

Product Dimensions

3314J-1



3314G-1



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



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



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



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



How To Order

3314 J - 1 - 502 E

Model _____
Style _____
Standard or Modified Product Indicator (Styles J, G, R, H & S)
-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** _____

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.

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 resistance values listed in boldface. Special resistances available.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

■ Model 3314 has been approved for use by DESC on drawings 88039 (3314J) and 90027 (3314G)

BOURNS®

Packaging Specifications - J, G and R Styles

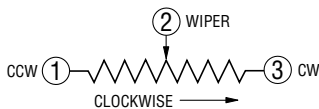
[illegible][illegible]

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing includes a top view and a side view. The top view shows a rectangular part with a central circular feature and four corner features. The side view shows a cross-section of the part with a central rectangular feature and four corner features. The dimensions are as follows:

- Top view:
 - Overall width: $2.74 \pm .10$ (inches), $(.108 \pm .004)$ (millimeters)
 - Overall height: $1.5 \pm .10 / -.00$ (inches), $(.060 \pm .004 / -.000)$ (millimeters)
 - Central circular feature diameter: $\text{DIA } 5.26 \pm .10$ (inches), $(.207 \pm .004)$ (millimeters)
 - Central circular feature depth: $4.00 \pm .10$ (inches), $(.157 \pm .004)$ (millimeters)
 - Central circular feature width: $2.00 \pm .05$ (inches), $(.079 \pm .020)$ (millimeters)
 - Central circular feature height: $1.75 \pm .10$ (inches), $(.069 \pm .004)$ (millimeters)
 - Central circular feature width: $12.00 \pm .30$ (inches), $(.472 \pm .012)$ (millimeters)
- Side view:
 - Overall width: $5.52 \pm .05$ (inches), $(.217 \pm .020)$ (millimeters)
 - Overall height: $5.26 \pm .10$ (inches), $(.207 \pm .004)$ (millimeters)
 - Central rectangular feature width: $6.45 \pm .10$ (inches), $(.254 \pm .004)$ (millimeters)
 - Central rectangular feature height: $5.26 \pm .10$ (inches), $(.207 \pm .004)$ (millimeters)
 - Central rectangular feature width: $8.00 \pm .20$ (inches), $(.315 \pm .008)$ (millimeters)

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

Meets EIA specification 481.



Technical drawing of a mechanical part, likely a connector or plug, showing front and side views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: $3.29 \pm .10$ (78.94 ± .004)
- Top flange width: $1.30 \pm .004$
- Top flange height: $.30$ MAX. (0.12)
- Top flange thickness: $6^\circ \pm 2^\circ$
- Overall length: $5.52 \pm .05$ (140.21 ± .002)

Front View Dimensions:

- Overall height: $12.00 \pm .30$ (304.8 ± .012)
- Top section height: $1.75 \pm .10$ (44.25 ± .004)
- Section 1 height: $1.5 \pm .10 / -.00$ (38.1 ± .004) DIA.
- Section 2 height: $4.00 \pm .10$ (101.6 ± .004)
- Section 3 height: $2.00 \pm .05$ (50.8 ± .002)
- Section 4 height: 1.50 ± 0.30 (38.1 ± .012) DIA.
- Section 5 height: $5.26 \pm .10$ (133.7 ± .004)
- Section 6 height: 6.45 ± 0.10 (163.9 ± .004)

Internal Features:

- Internal rectangular feature in the top section.
- Internal circular feature in the section below the 4.00 inch section.
- Internal cross-shaped feature in the section below the 2.00 inch section.

Technical drawing of a circular part with three slots and a central hole. The drawing includes the following dimensions and features:

- Top Slot:** Width $1.78 \pm .254$ ($.070 \pm .010$).
- Bottom Slot:** Width $13.0 \pm .508$ ($.512 \pm .020$) DIA.
- Central Hole:** Diameter $21.01 \pm .789$ ($.000 \pm .000$) DIA.
- Slot Spacing:** "EQUAL SPACED 3 PLCS." (Three Places).
- Right Side Features:**
 - Slot Width: $2.67 \pm .254$ ($.105 \pm .010$).
 - Distance from Center to Slot Center: 59.18 ± 2.03 ($2.330 \pm .080$).
 - Distance from Slot Center to Edge: $12.4 \pm 2.01 / -.000$ ($.488 \pm .079 / -.000$).
- Bottom Dimensions:**
 - Distance from Center to Bottom Slot Center: 177.8 ± 2.03 ($7.00 \pm .080$) DIA.*
 - Distance from Center to Bottom Slot Center: 330.2 ± 2.0 ($13.00 \pm .079$) DIA.**

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

Meets EIA specification 481.

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

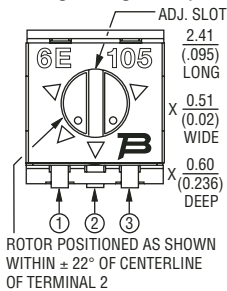
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

3314 - 4 mm Square Trimming Potentiometer

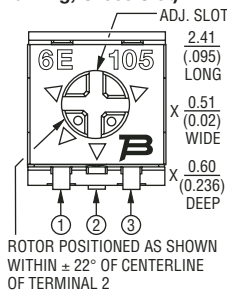
BOURNS®

Product Dimensions

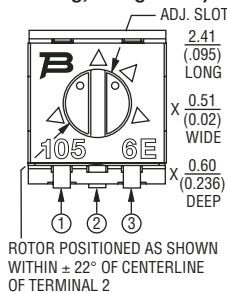
3314S-1 (Bourns Marking, Straight Slot)



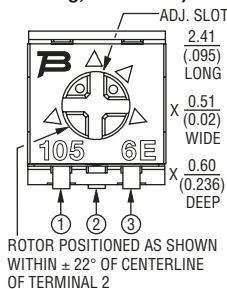
3314S-2 (Bourns Marking, Cross Slot)



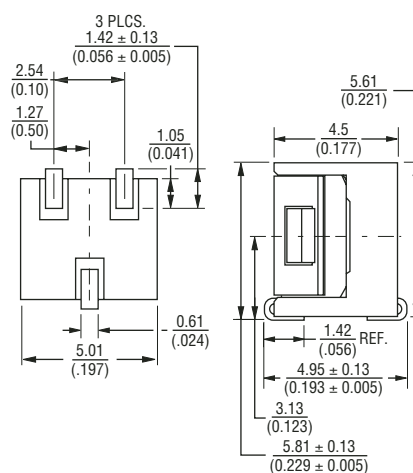
3314S-3 (Reverse Marking, Straight Slot)



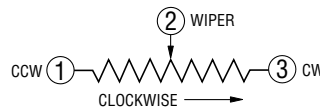
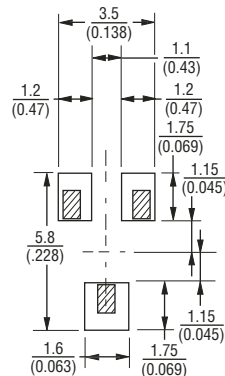
3314S-4 (Reverse Marking, Cross Slot)



3314S Common Dimensions



RECOMMENDED PCB LAYOUT

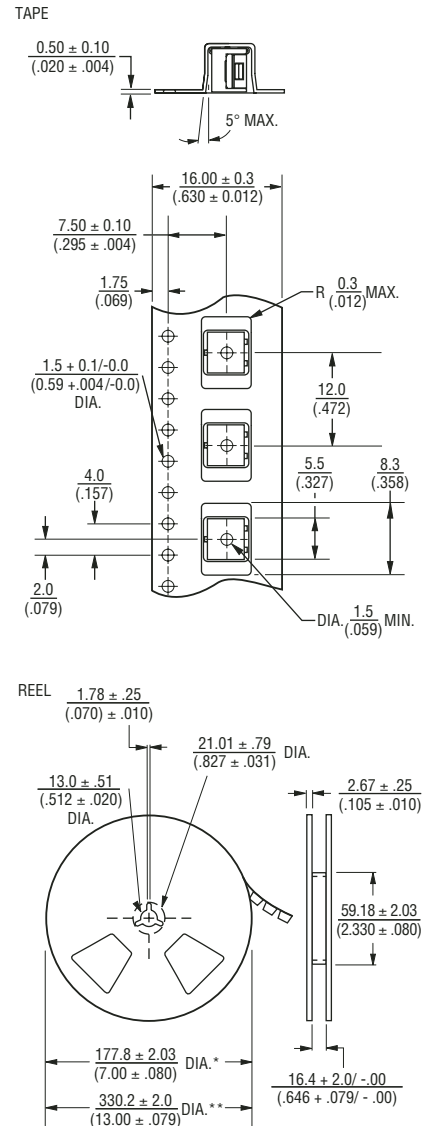


TOLERANCES: ± 0.30 (.012) EXCEPT WHERE NOTED

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

Packaging Specifications

(S Style)



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

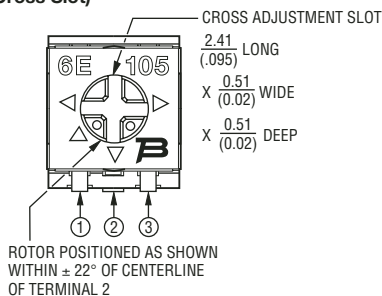
Meets EIA specification 481.

3314 - 4 mm Square Trimming Potentiometer

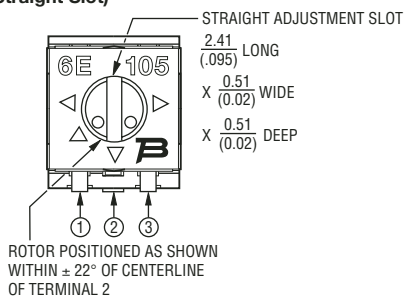
BOURNS®

Product Dimensions

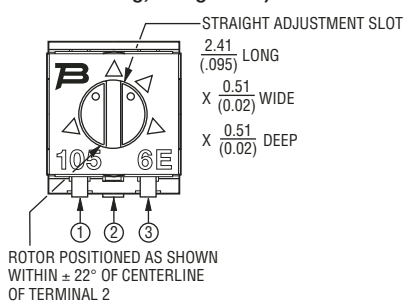
3314Z-1-(RC) E (Cross Slot)



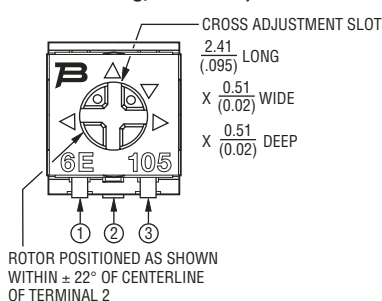
3314Z-GA4-(RC) E (Straight Slot)



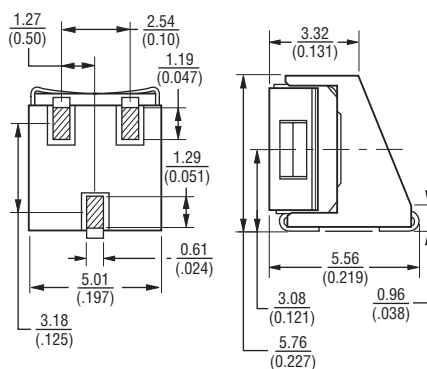
3314Z-3 (Reverse Marking, Straight Slot)



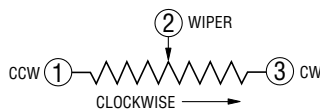
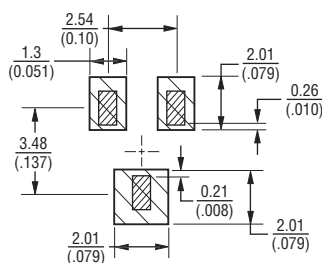
3314Z-4-(RC) E (Reverse Marking, Cross Slot)



3314Z Common Dimensions



RECOMMENDED PCB LAYOUT



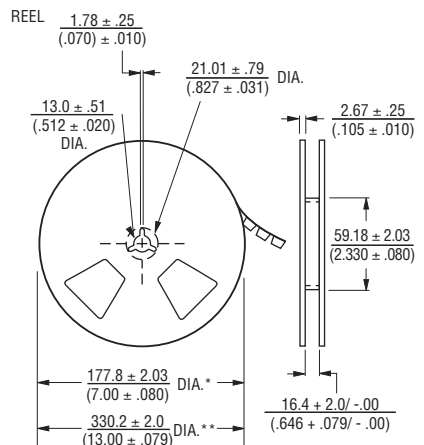
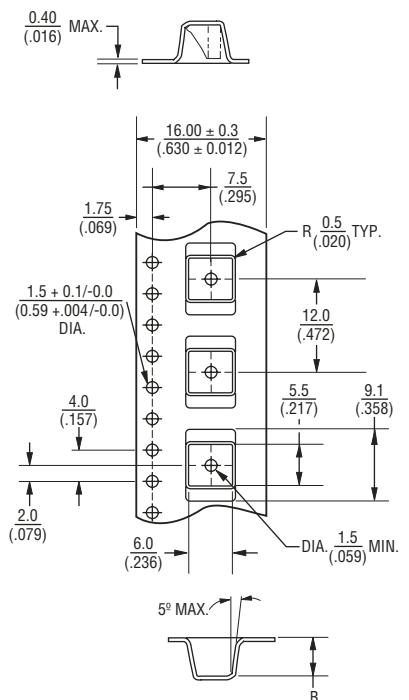
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

Packaging Specifications

(Z Style)

TAPE



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"

(See How To Order chart for further information.)

Meets EIA specification 481.

REV. 08/05

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