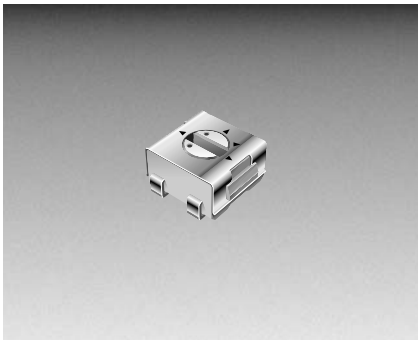




Features

- 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

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.

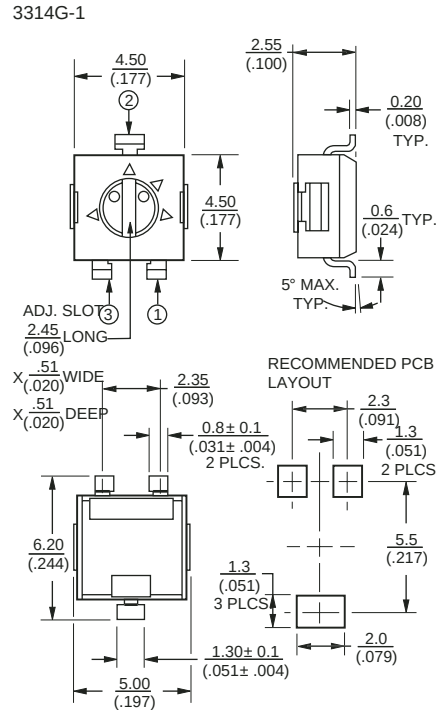
Environmental Characteristics

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
TRS ±2 %; IR 10 megohms
Vibration20 G TRS ±1 %; VRS ±1 %
Shock100 G TRS ±1 %; VRS ±1 %
Load Life
.....(@ 70 °C Rated Power 1000 Hours)
TRS ±3 %
Rotational Life100 cycles
TRS ±3 %
Thermal Shock5 cycles
TRS ±2 %; VRS ±1 %

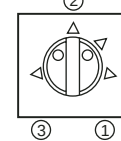
Physical Characteristics

Mechanical Angle240 ° nom.
Torque180 g-cm typical
Stop Strength300 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 %
FlammabilityU.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

Product Dimensions



3314 G-1
(Bourns Marking,
Straight Slot)



How To Order

3314 G - 1 - 502 E

Model _____
 Style _____
 Standard or Modified Product Indicator
 -1 = Single Slot

Resistance Code _____
 Embossed Tape Designator _____
 E = Styles G: 500 pcs./7 " reel
 G = Styles G: 3000 pcs./13 " reel

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.

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

■ 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 the profile of the part with a central raised section. Dimensions are provided in inches and millimeters.

Dimensions (Inches / Millimeters):

- Top view:
 - Overall width: $2.74 \pm .10$ / $(.108 \pm .004)$
 - Overall height: $1.5 \pm .10 / - .00$ / $(.060 \pm .004 / - .000)$
 - Central circular feature diameter: DIA $5.26 \pm .10$ / $(.207 \pm .004)$ (J)
 - Central circular feature diameter: DIA $6.45 \pm .10$ / $(.254 \pm .004)$ (G)
 - Distance from top edge to center of central feature: $4.00 \pm .10$ / $(.157 \pm .004)$
 - Distance from bottom edge to center of central feature: $2.00 \pm .05$ / $(.079 \pm .020)$
 - Distance from left edge to center of central feature: $1.75 \pm .10$ / $(.069 \pm .004)$
 - Distance from right edge to center of central feature: $12.00 \pm .30$ / $(.472 \pm .012)$
- Side view:
 - Overall height: $5.52 \pm .05$ / $(.217 \pm .020)$
 - Distance from top edge to center of central feature: $5.26 \pm .10$ / $(.207 \pm .004)$ (J)
 - Distance from bottom edge to center of central feature: $5.26 \pm .10$ / $(.207 \pm .004)$
 - Distance from left edge to center of central feature: $8.00 \pm .20$ / $(.315 \pm .008)$

Technical drawing of a circular part with three slots. The drawing includes a top view and a side view.

Top View Dimensions:

- Slot width: $1.78 \pm .25$ ($.070 \pm .010$)
- Distance between slot centers: $21.01 \pm .79$ ($.827 \pm .031$)
- Circle diameter: $13.0 \pm .51$ ($.512 \pm .020$)
- Overall diameter (bottom): 177.8 ± 2.03 ($7.00 \pm .080$)
- Overall diameter (bottom): 330.2 ± 2.0 ($13.00 \pm .079$)

Side View Dimensions:

- Part thickness: $2.67 \pm .25$ ($.105 \pm .010$)
- Distance between slot centers (side view): 59.18 ± 2.03 ($2.330 \pm .080$)
- Slot width (side view): 12.4 ± 2.01 ($.488 \pm .079$)

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

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: $3.29 \pm .10$ (78.74 ± .004)
- Width of the central feature: $5.52 \pm .05$ (140.12 ± .002)
- Radius of the central feature: $R.30$ (0.12) MAX.
- Angle of the central feature: $6^\circ \pm 2^\circ$

Front View Dimensions:

- Overall height: $12.00 \pm .30$ (304.8 ± .012)
- Height of the top section: $1.75 \pm .10$ (44.25 ± .004)
- Height of the middle section: $4.00 \pm .10$ (101.6 ± .004)
- Height of the bottom section: $2.00 \pm .05$ (50.8 ± .002)
- Width of the central feature: $6.45 \pm .10$ (163.9 ± .004)
- Width of the bottom section: 1.50 ± 0.30 (38.1 ± .012) DIA.
- Radius of the bottom section: $R.15$ (0.038) MAX.

Other Features:

- Four circular holes on the left side, each with a diameter of $1.5 \pm .10 / -.00$ (38.1 ± .004) DIA.
- Four circular holes on the right side, each with a diameter of $1.5 \pm .10 / -.00$ (38.1 ± .004) DIA.
- Four circular holes on the bottom section, each with a diameter of $1.5 \pm .10 / -.00$ (38.1 ± .004) DIA.
- Four circular holes on the top section, each with a diameter of $1.5 \pm .10 / -.00$ (38.1 ± .004) DIA.

1.78 ± .254
(.070 ± .010)
EQUALLY SPACED
3 PLCS.

13.0 ± .508
(.512 ± .020)
DIA.

21.01 ± .789
(.000 ± .000)
DIA.

2.67 ± .254
(.105 ± .010)

59.18 ± 2.03
(2.330 ± .080)

177.8 ± 2.03
(7.00 ± .080) DIA. *

330.2 ± 2.0
(13.00 ± .079) DIA. **

12.4 ± 2.01 / -.000
(.488 ± .079 / -.000)

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

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

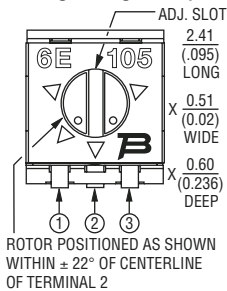
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

3314 - 4 mm Square Trimming Potentiometer

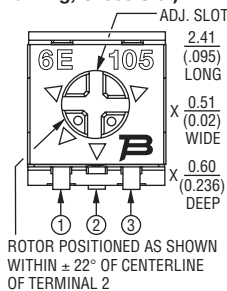
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Product Dimensions

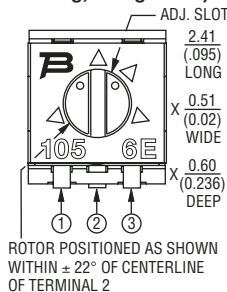
3314S-1 (Bourns Marking, Straight Slot)



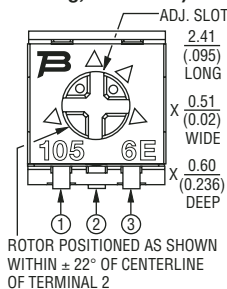
3314S-2 (Bourns Marking, Cross Slot)



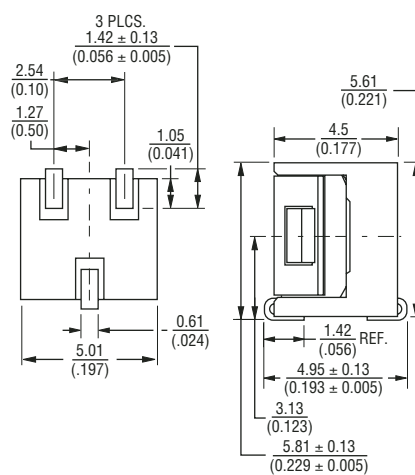
3314S-3 (Reverse Marking, Straight Slot)



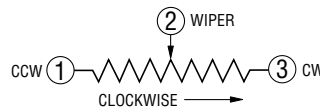
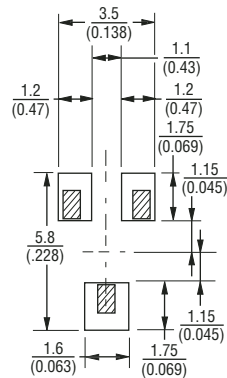
3314S-4 (Reverse Marking, Cross Slot)



3314S Common Dimensions



RECOMMENDED PCB LAYOUT

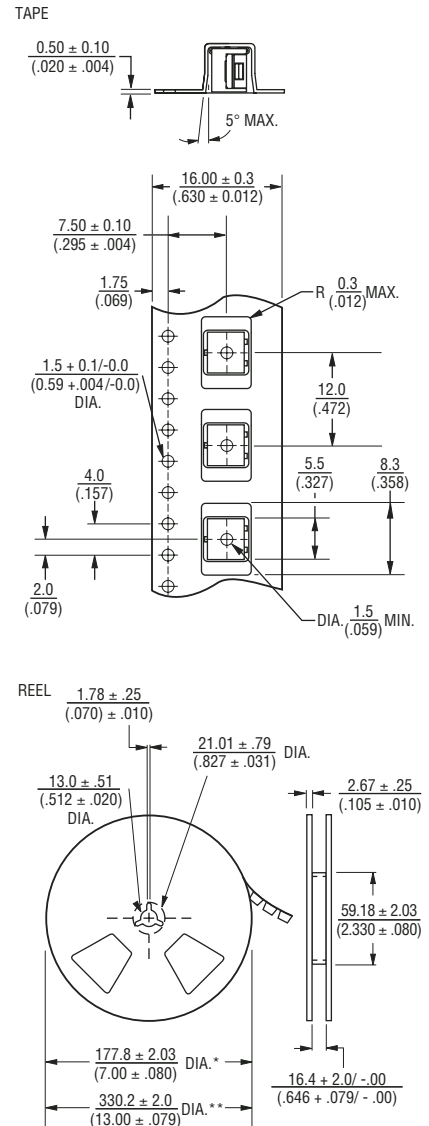


TOLERANCES: ± 0.30 (.012) EXCEPT WHERE NOTED

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.)

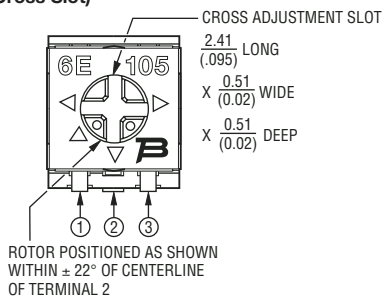
Meets EIA specification 481.

3314 - 4 mm Square Trimming Potentiometer

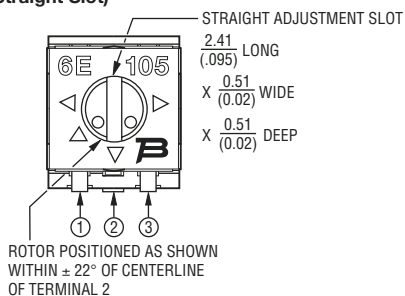
BOURNS®

Product Dimensions

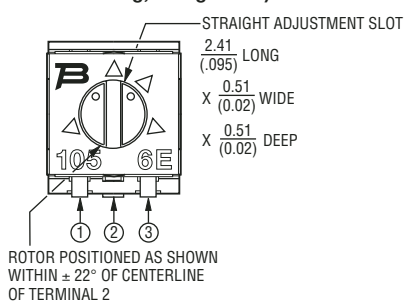
3314Z-1-(RC) E (Cross Slot)



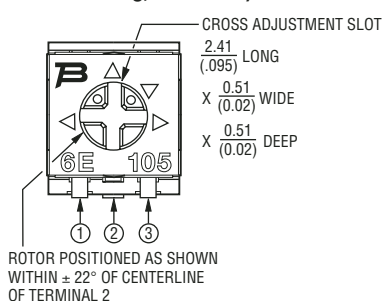
3314Z-GA4-(RC) E (Straight Slot)



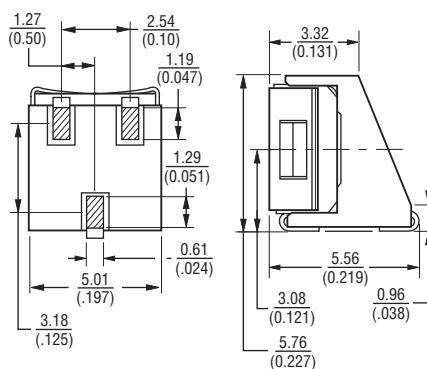
3314Z-3 (Reverse Marking, Straight Slot)



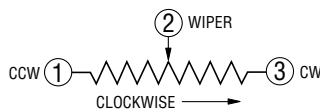
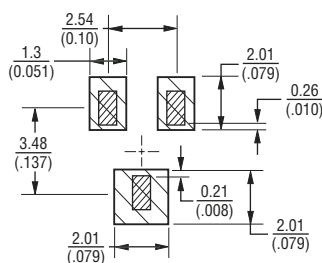
3314Z-4-(RC) E (Reverse Marking, Cross Slot)



3314Z Common Dimensions



RECOMMENDED PCB LAYOUT



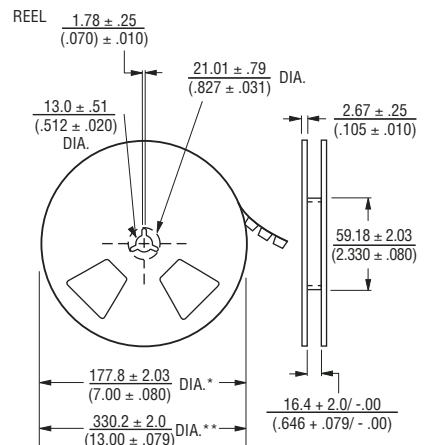
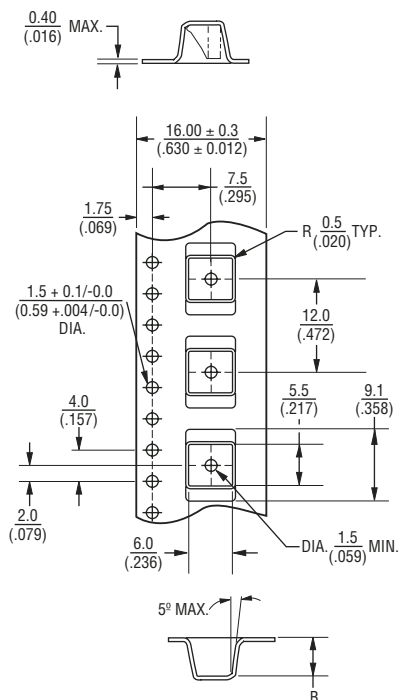
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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.