



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/VCEI SMD standard trimmer designs
- RoHS compliant* - see [processing information](#) on lead free surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

3314 - 4 mm Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 ohms to 2 megohms (see standard resistance table)
Resistance Tolerance $\pm 20\%$ 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 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 Fluorinert†/60 seconds
Humidity 90-98 % RH, 10 cycles, 240 hours
TRRS ± 2 %; IR 10 megohms	
Vibration 20 G TRS $\pm 1\%$; VRS $\pm 1\%$
Shock 100 G TRS $\pm 1\%$; VRS $\pm 1\%$
Load Life (@ 70 °C Rated Power 1000 Hours) TRRS $\pm 3\%$
Rotational Life 100 cycles TRRS $\pm 3\%$
Thermal Shock 5 cycles TRRS $\pm 2\%$; VRS $\pm 1\%$

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) $\pm 10\%$
Flammability U.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



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

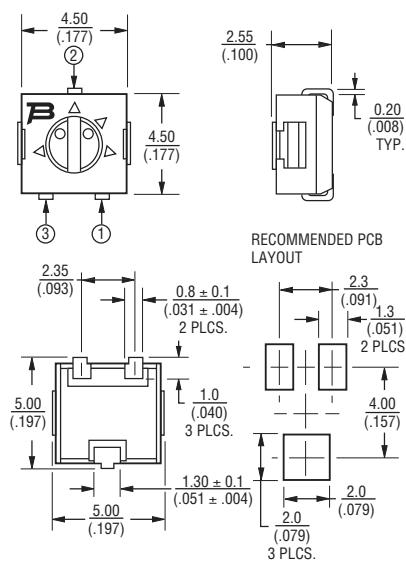
†"Fluorinert" is a registered trademark of 3M Co.

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

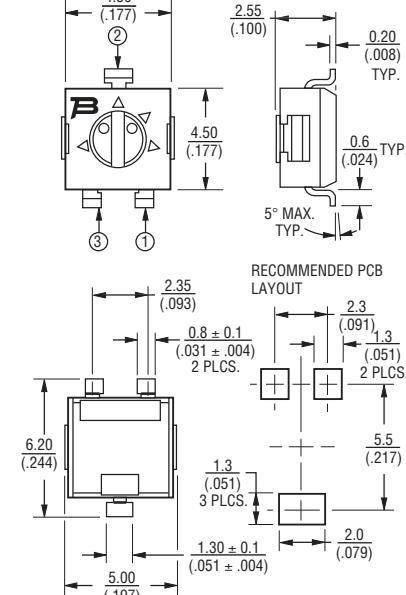
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Product Dimensions

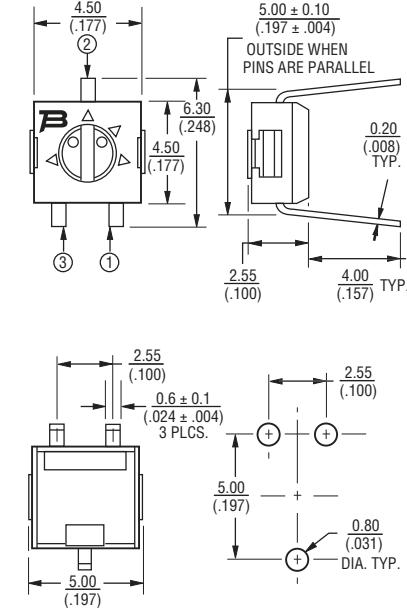
3314J-1



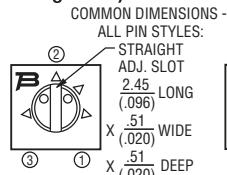
3314G-1



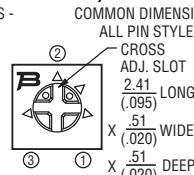
3314H-1



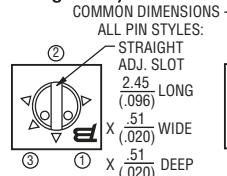
3314J-1, G-1, R-1, H-1
(Bourns Marking,
Straight Slot)



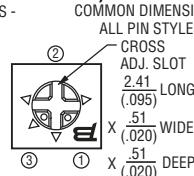
3314J-2, G-2, R-2, H-2
(Bourns Marking,
Cross Slot)



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



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



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

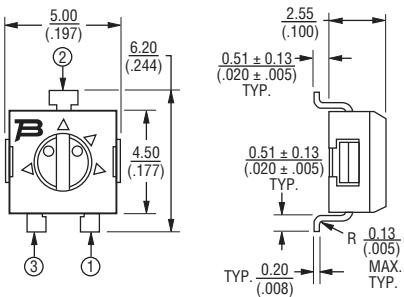
TOLERANCES: $\pm \frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

3314 - 4 mm Square Trimpot® Trimming Potentiometer

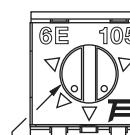
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Product Dimensions

3314R-1

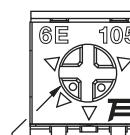


3314S-1
(Bourns Marking, Straight Slot)



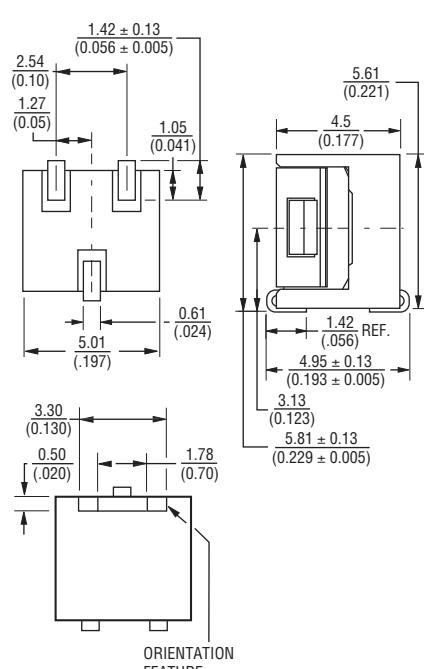
ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314S-2
(Bourns Marking, Cross Slot)

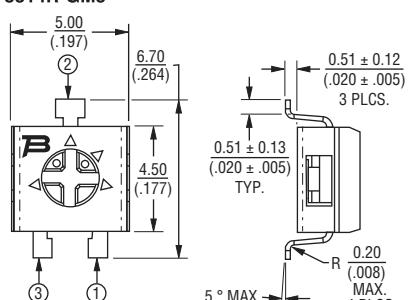


ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

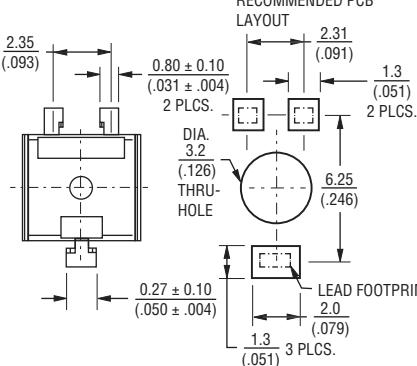
3314S
Common Dimensions



3314R-GM5

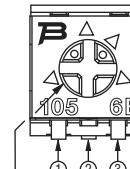


RECOMMENDED PCB LAYOUT



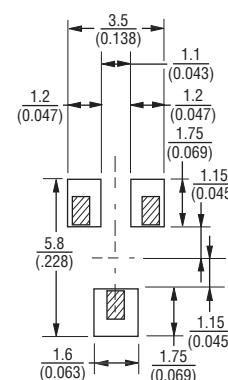
ROTOR POSITIONED AS SHOWN
WITHIN $\pm 22^\circ$ OF CENTERLINE
OF TERMINAL 2

3314S-4
(Reverse Marking, Cross Slot)



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

RECOMMENDED PCB LAYOUT



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

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

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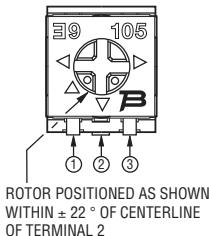
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3314 - 4 mm Square Trimpot® Trimming Potentiometer

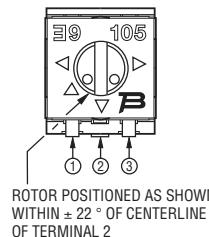
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Product Dimensions

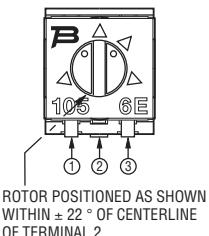
3314Z-1-(RC) E
(Cross Slot)



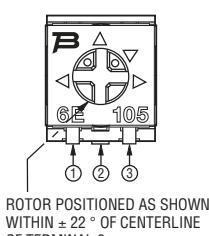
3314Z-GA4-(RC) E
(Straight Slot)



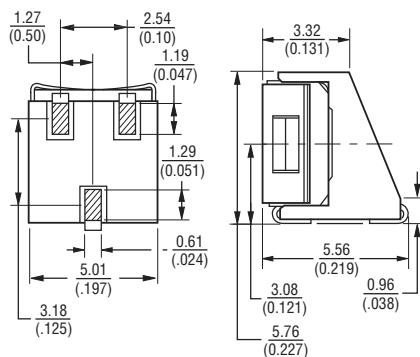
3314Z-3
(Reverse Marking, Straight Slot)



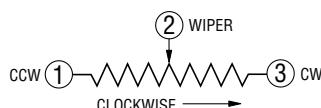
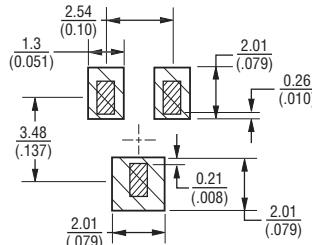
3314Z-4-(RC) E
(Reverse Marking, Cross Slot)



3314Z Common Dimensions



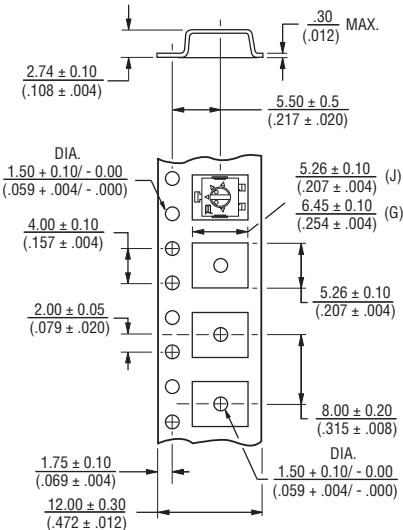
RECOMMENDED PCB LAYOUT



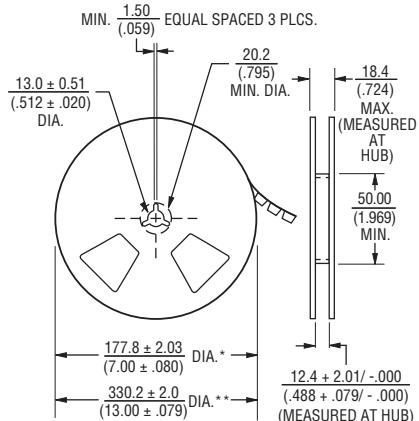
Packaging Specifications

(J, G Styles)

TAPE



REEL



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

Meets EIA specification 481.

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

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

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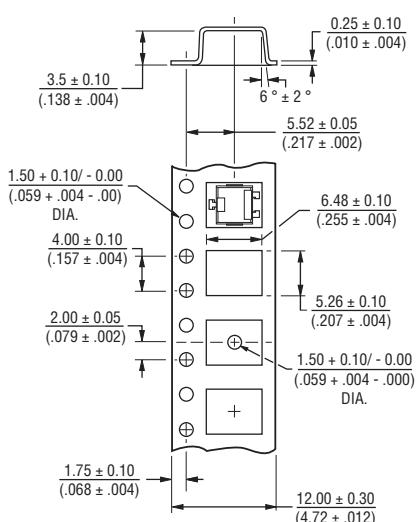
3314 - 4 mm Square Trimpot® Trimming Potentiometer

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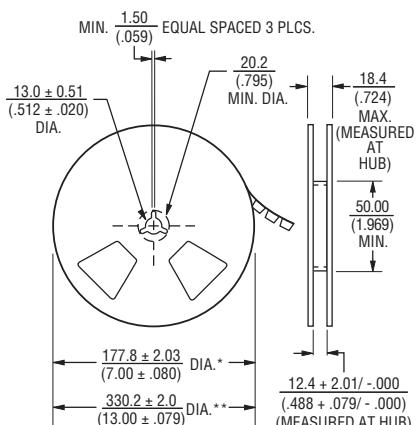
Packaging Specifications

(R Style)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"

(See How To Order chart for further information.)

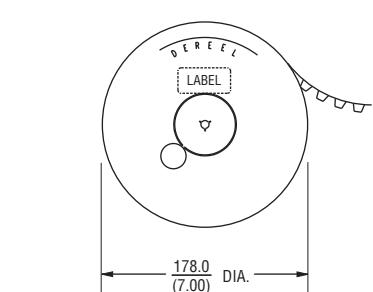
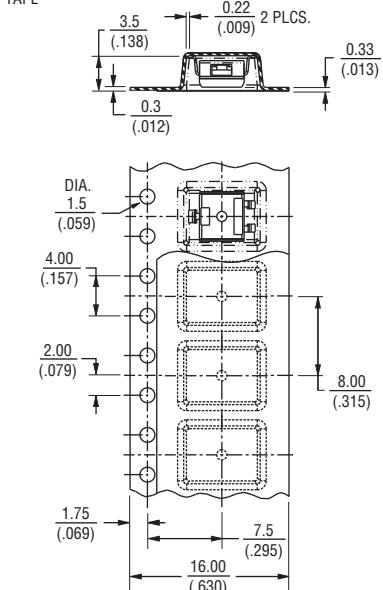
Meets EIA specification 481.

DIMENSIONS: MM
(INCHES)

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

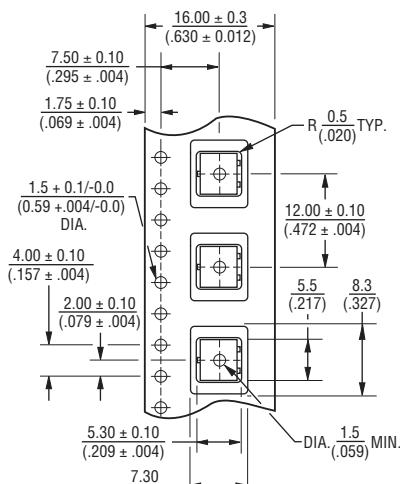
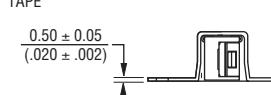
(R-GM5 Style)

TAPE

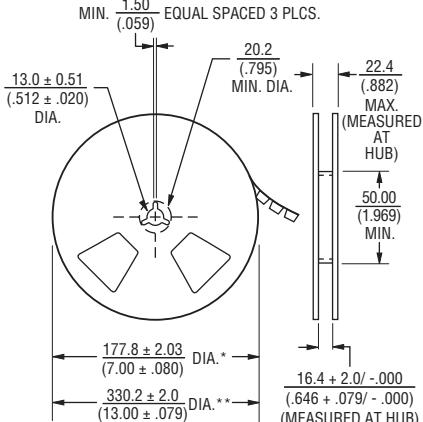


(S Style)

TAPE



REEL



* Embossed Tape Designator "E"

** Embossed Tape Designator "G"

(See How To Order chart for further information.)

Meets EIA specification 481.

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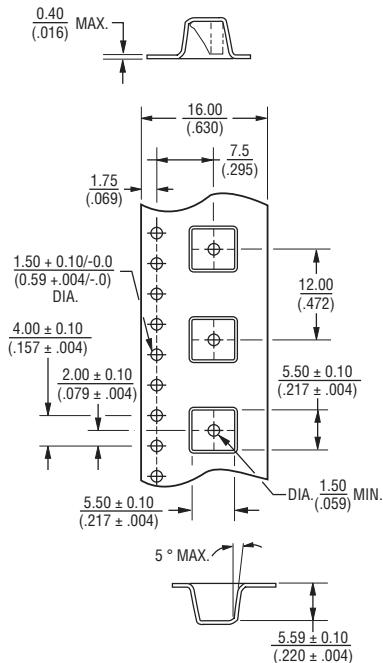
3314 - 4 mm Square Trimpot® Trimming Potentiometer

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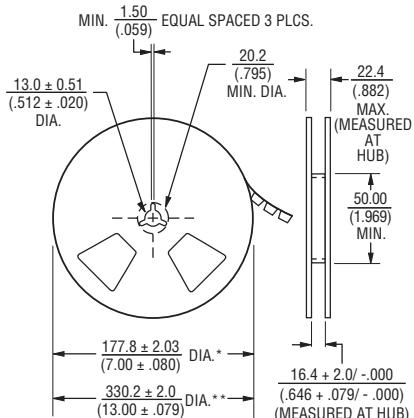
Packaging Specifications

(Z Style)

TAPE



REEL



* Embossed Tape Designator 'E'

** Embossed Tape Designator 'G'

(See How To Order chart for further information.)

Meets EIA specification 481.

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
 **Style H is available in tube packaging only.

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.

REV. 08/18

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