

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 trimmers
- For trimmer applications/processing guidelines, [click here](#)
- AEC-Q200 Qualified Grade 1

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

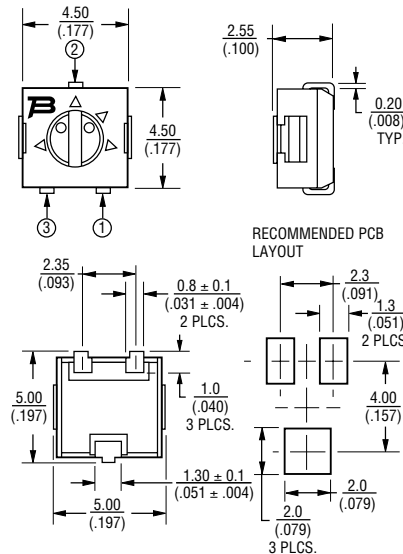
Power Rating (300 volts max. for Style G, J & H; 50 volts max. for Style R)
70 °C 0.25 watt
125 °C 0 watt
Temperature Range ... -55 °C to +125 °C
Temperature Coefficient ... ± 100 ppm/°C
Seal Test .. 85 °C Fluorinert / 60 seconds
Humidity 90-98 % RH,
10 cycles, 240 hours
Vibration 20 G TRS $\pm 1\%$; VRS $\pm 1\%$
Shock 100 G TRS $\pm 1\%$; VRS $\pm 1\%$
Load Life
..... (@ 70 °C Rated Power 1000 Hours)
Rotational Life 100 cycles
Thermal Shock 5 cycles
TRS $\pm 2\%$; VRS $\pm 1\%$

Physical Characteristics

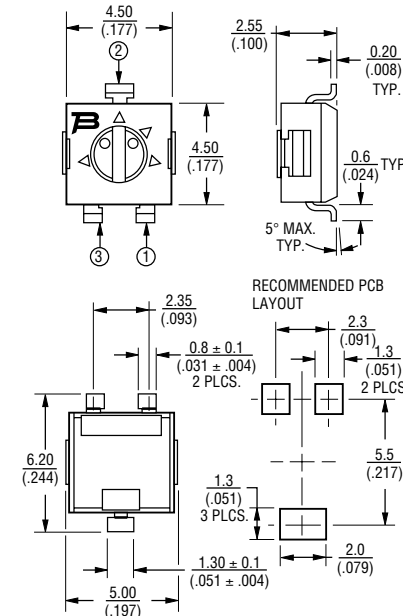
Mechanical Angle 240° nom.
Torque 180 g-cm max.
Stop Strength 300 g-cm min.
Pushover Strength (S & Z Style)
..... 1.6 kilograms (3.5 lbs.) min.
Weight Approximately 0.01 oz.
Marking Manufacturer's code,
resistance code and date code
Wiper 50 % (Actual TR) $\pm 10\%$
Flammability U.L. 94V-0
Standard Packaging
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

Product Dimensions

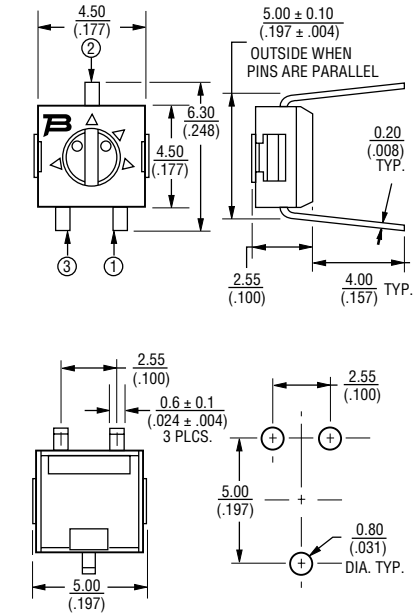
3314J-1



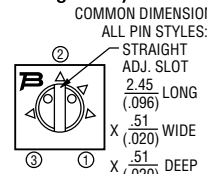
3314G-1



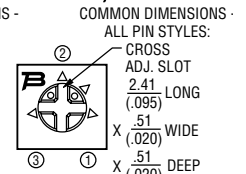
3314H-1



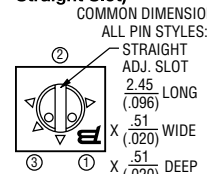
3314J-1, G-1, R-1, H-1
(Bourns Marking,
Straight Slot)



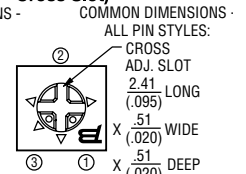
3314J-2, G-2, R-2, H-2
(Bourns Marking,
Cross Slot)



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: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

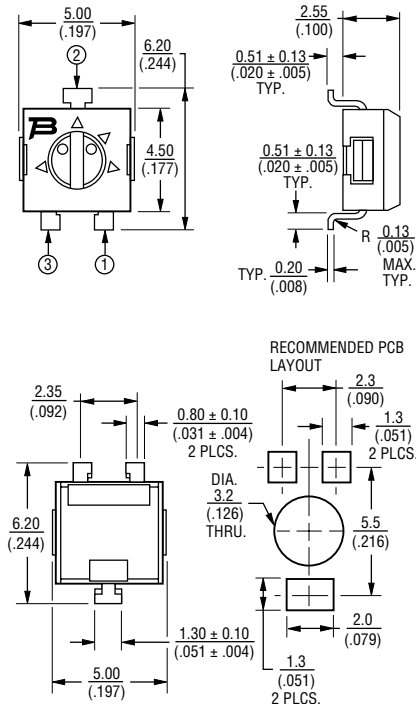
*RoHS Directive 2015/863, Mar. 31, 2015 and Annex
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3314 - 4 mm Square Trimpot® Trimming Potentiometer

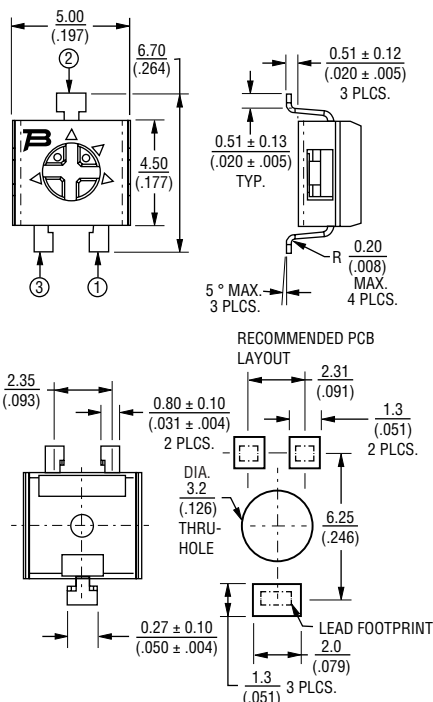
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Product Dimensions

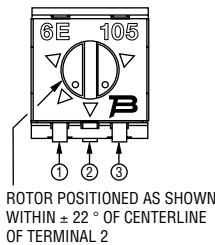
3314R-1



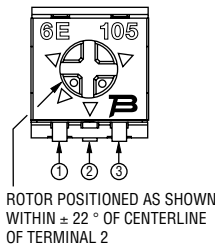
3314R-GM5



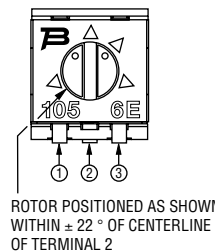
3314S-1 (Bourns Marking, Straight Slot)



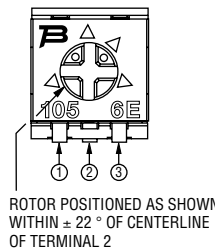
3314S-2 (Bourns Marking, Cross Slot)



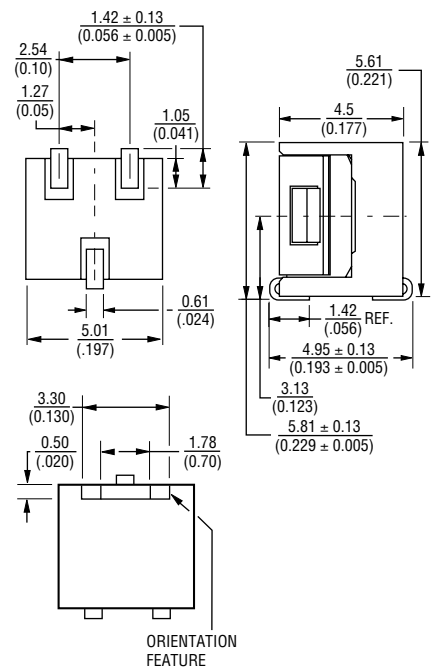
3314S-3 (Reverse Marking, Straight Slot)



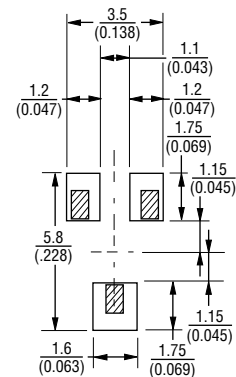
3314S-4 (Reverse Marking, Cross Slot)



3314S Common Dimensions



RECOMMENDED PCB LAYOUT



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
TOLERANCES: ± $\frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

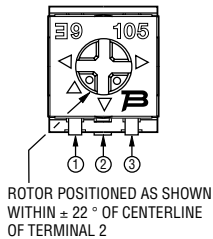
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3314 - 4 mm Square Trimpot® Trimming Potentiometer

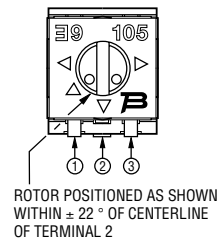
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Product Dimensions

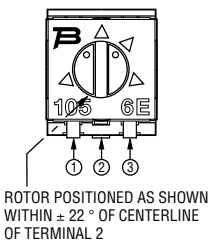
3314Z-1-(RC) E (Cross Slot)



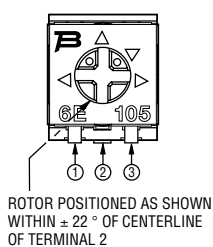
3314Z-GA4-(RC) E (Straight Slot)



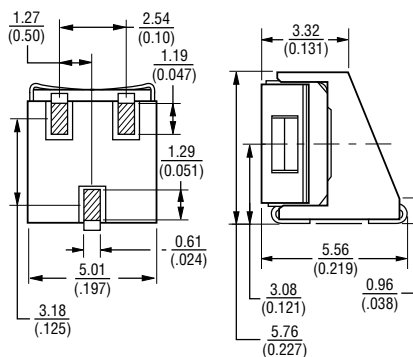
3314Z-3 (Reverse Marking, Straight Slot)



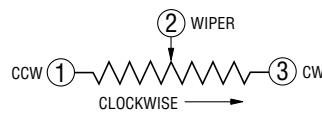
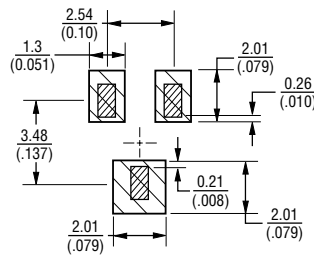
3314Z-4-(RC) E (Reverse Marking, Cross Slot)



3314Z Common Dimensions



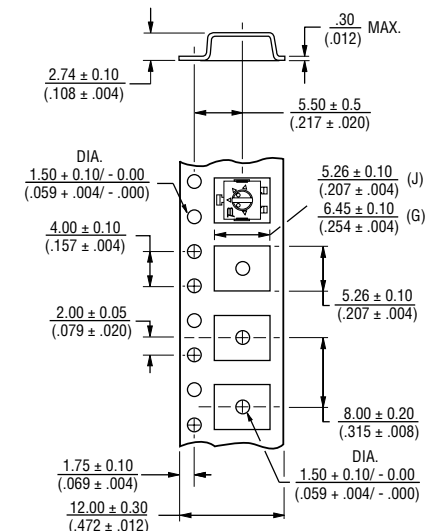
RECOMMENDED PCB LAYOUT



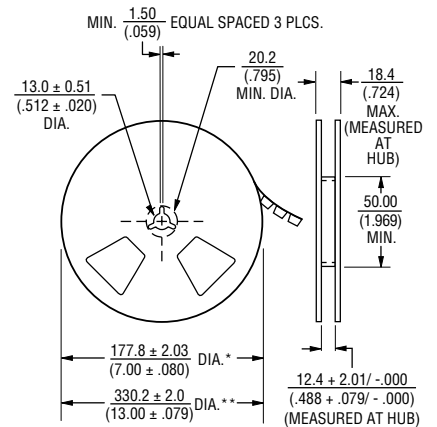
Packaging Specifications

(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:	MM (INCHES)
TOLERANCES: \pm	0.30 (.012) EXCEPT WHERE NOTED

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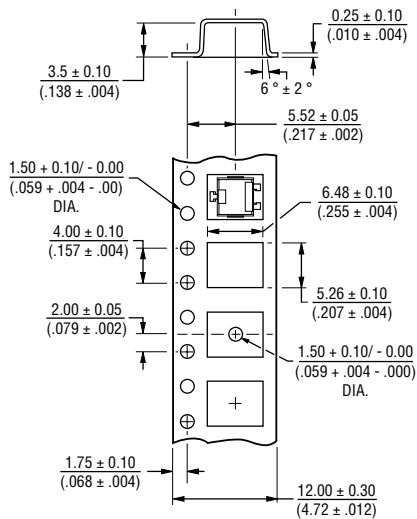
3314 - 4 mm Square Trimpot® Trimming Potentiometer

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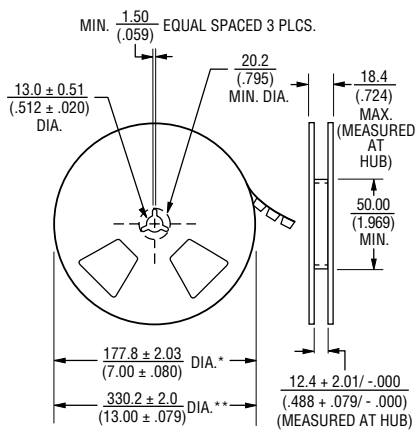
Packaging Specifications

(R Style)

TAPE



REEL



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

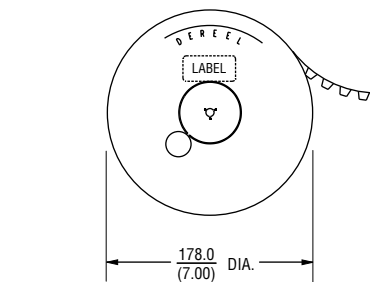
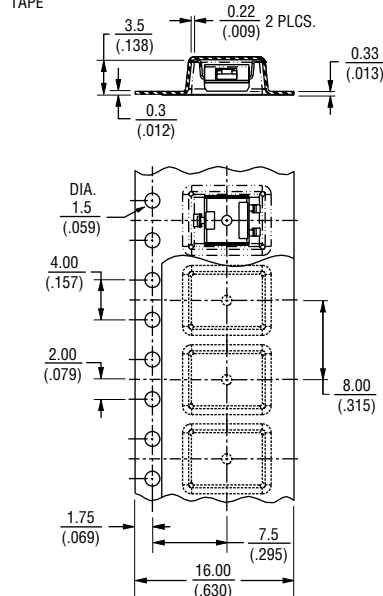
Meets EIA specification 481.

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

TOLERANCES: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

(R-GM5 Style)

TAPE



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

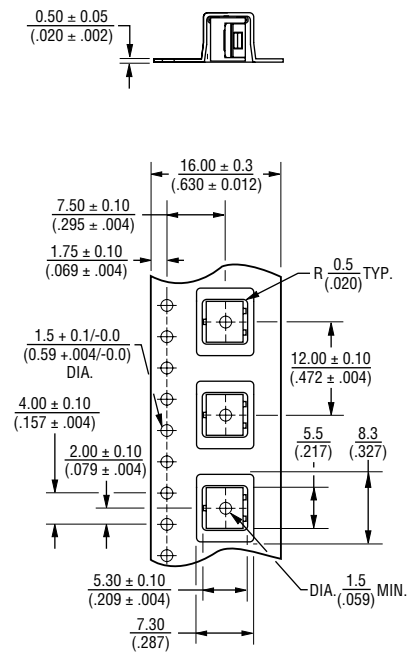
Meets EIA specification 481.

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

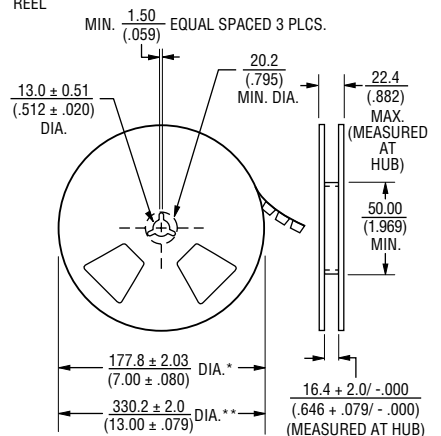
TOLERANCES: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

(S Style)

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: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

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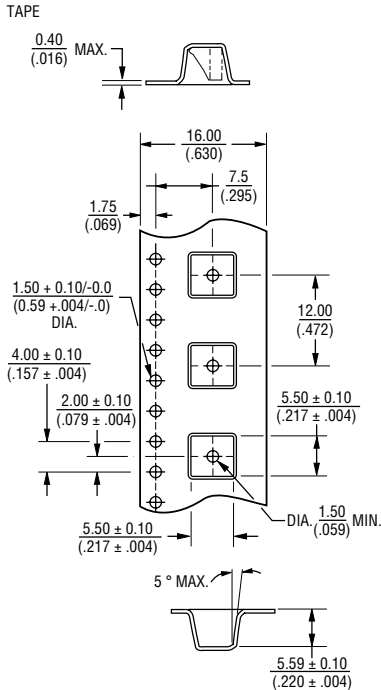
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3314 - 4 mm Square Trimpot® Trimming Potentiometer

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Packaging Specifications

(Z Style)



* 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: $\pm \frac{0.30}{(.012)}$ EXCEPT WHERE NOTED

How To Order

Model **3314 J - 1 - 502 E**

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.

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REV. 08/28/19

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