

## 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
- For trimmer applications/processing guidelines, [click here](#)

## 3314 - 4 mm Square Timpot® 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 .....  $210^\circ$  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 ...  $\pm 100$  ppm/°C

Humidity ..... 90-98 % RH,  
10 cycles, 240 hours

TR  $\pm 2\%$ ; IR 10 megohms

Vibration ..... 20 G TR  $\pm 1\%$ ; VRS  $\pm 1\%$

Shock ..... 100 G TR  $\pm 1\%$ ; VRS  $\pm 1\%$

Load Life  
..... (@ 70 °C Rated Power 1000 Hours)  
TR  $\pm 3\%$

Rotational Life ..... 100 cycles  
TR  $\pm 3\%$

Thermal Shock ..... 5 cycles  
TR  $\pm 2\%$ ; VRS  $\pm 1\%$

### Physical Characteristics

Mechanical Angle .....  $240^\circ$  nom.

Torque ..... 180 g-cm typical

Stop Strength ..... 300 g-cm typical

Pushover Strength (Z Style)  
..... 2 kilograms (4.4 lbs.) minimum

Weight ..... Approximately 0.01 oz.

Marking ..... Manufacturer's code,  
resistance code and date code

Wiper ..... 50 % (Actual TR)  $\pm 10\%$

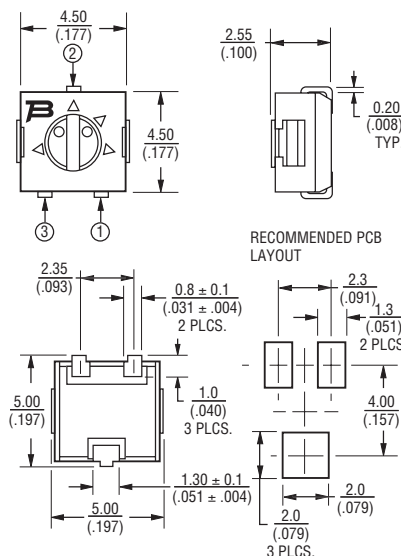
Flammability ..... U.L. 94V-0

Standard Packaging  
J, G and R ..... 500 pcs./7 " reel  
S and Z ..... 200 pcs./7 " reel  
H ..... 100 pcs./tube

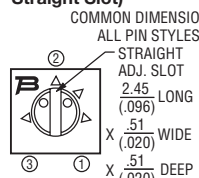
Adjustment Tool ..... H-90

### Product Dimensions

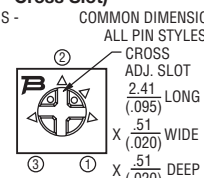
3314J-1



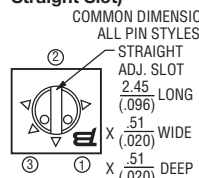
3314J-1, G-1, R-1, H-1  
(Bourns Marking,  
Straight Slot)



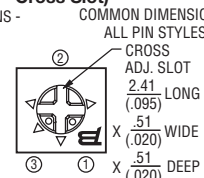
3314J-2, G-2, R-2, H-2  
(Bourns Marking,  
Cross Slot)



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

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

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
<b>100</b>	<b>101</b>
<b>200</b>	<b>201</b>
<b>500</b>	<b>501</b>
<b>1,000</b>	<b>102</b>
<b>2,000</b>	<b>202</b>
<b>5,000</b>	<b>502</b>
<b>10,000</b>	<b>103</b>
<b>20,000</b>	<b>203</b>
<b>50,000</b>	<b>503</b>
<b>100,000</b>	<b>104</b>
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.

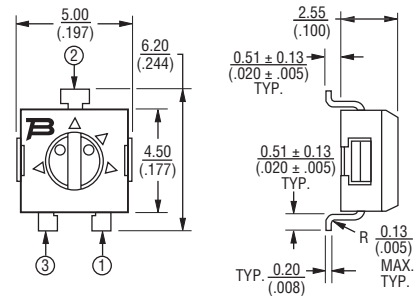
\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

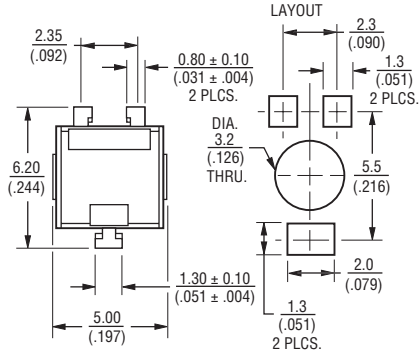
**BOURNS®**

## Product Dimensions

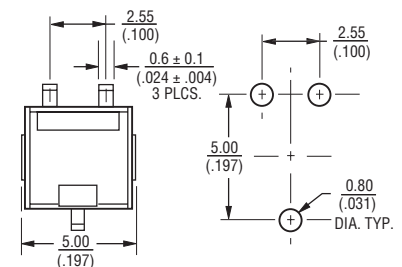
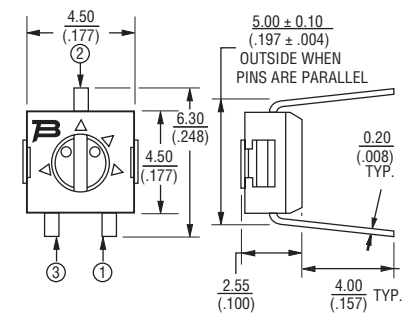
3314R-1



### RECOMMENDED PCB LAYOUT



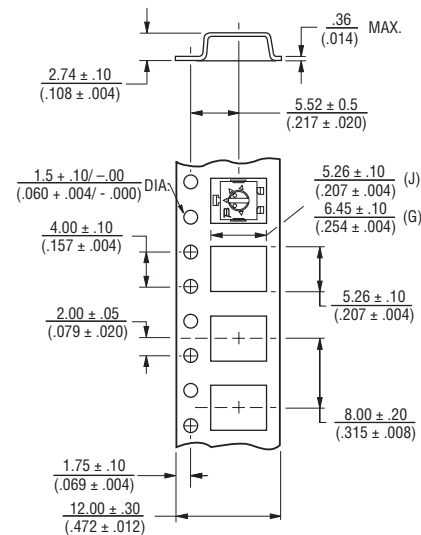
3314H-1



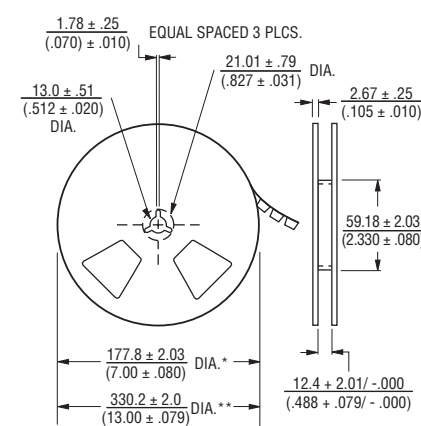
## Packaging Specifications - J, G and R Styles

(J, G Styles)

TAPE

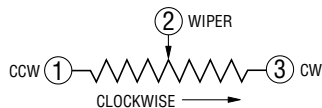


REEL



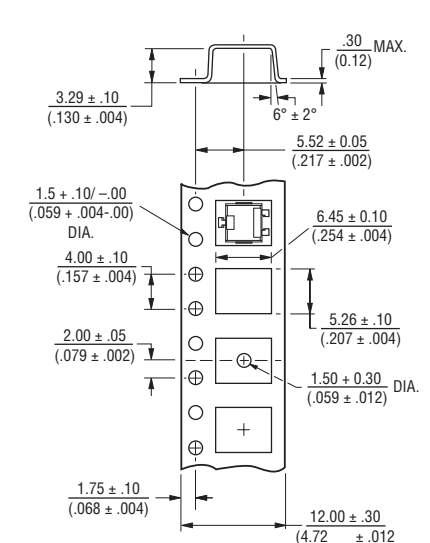
\* Embossed Tape Designator "E"  
\*\* Embossed Tape Designator "G"  
(See How To Order chart for further information.)

Meets EIA specification 481.

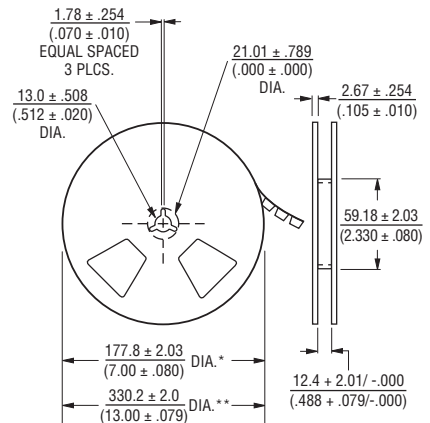


(R Style)

TAPE



REEL



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

Meets EIA specification 481.

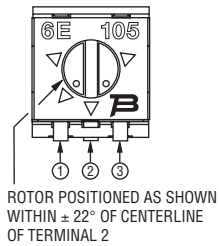
DIMENSIONS:	MM (INCHES)
TOLERANCES: ±	0.25 (.010)
	EXCEPT WHERE NOTED

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

**BOURNS®**

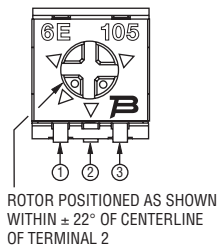
## Product Dimensions

### 3314S-1 (Bourns Marking, Straight Slot)



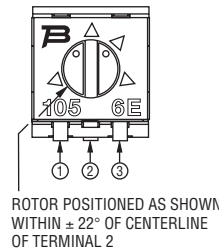
ROTOR POSITIONED AS SHOWN  
WITHIN ± 22° OF CENTERLINE  
OF TERMINAL 2

### 3314S-2 (Bourns Marking, Cross Slot)



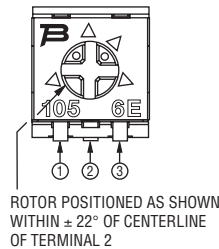
ROTOR POSITIONED AS SHOWN  
WITHIN ± 22° OF CENTERLINE  
OF TERMINAL 2

### 3314S-3 (Reverse Marking, Straight Slot)



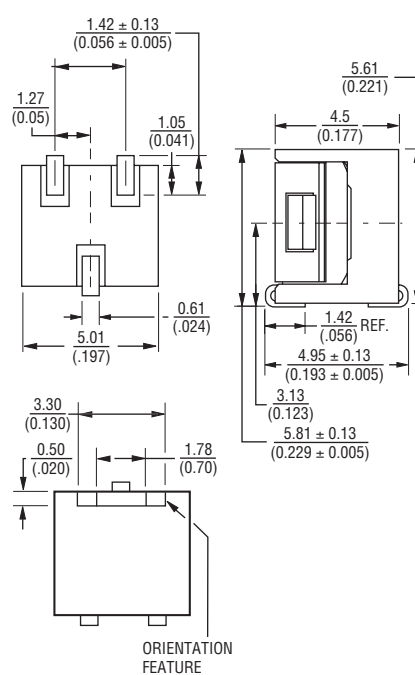
ROTOR POSITIONED AS SHOWN  
WITHIN ± 22° OF CENTERLINE  
OF TERMINAL 2

### 3314S-4 (Reverse Marking, Cross Slot)

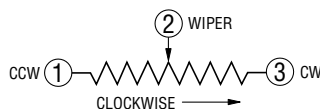
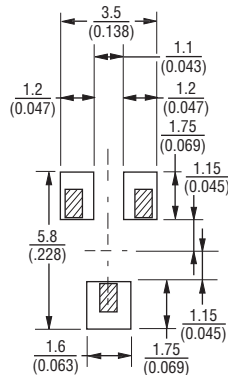


ROTOR POSITIONED AS SHOWN  
WITHIN ± 22° OF CENTERLINE  
OF TERMINAL 2

### 3314S Common Dimensions



### RECOMMENDED PCB LAYOUT



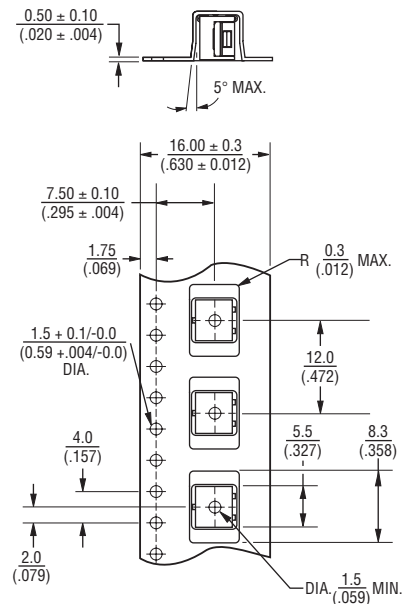
DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

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

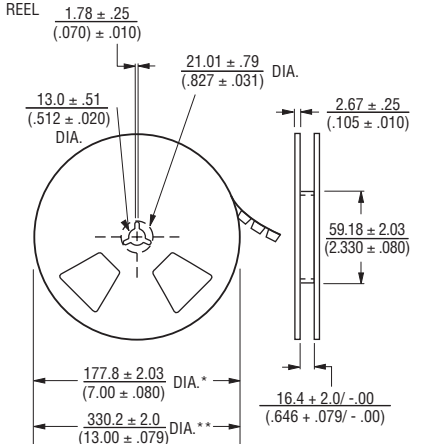
## Packaging Specifications

### (S Style)

#### TAPE



#### REEL



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

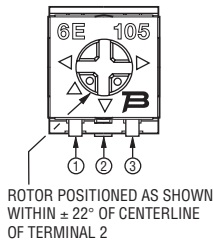
Meets EIA specification 481.

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

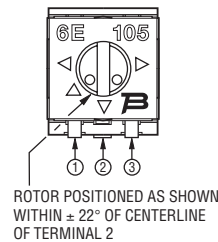
**BOURNS®**

## Product Dimensions

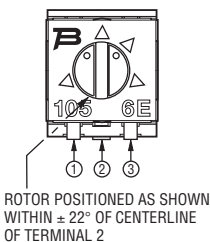
### 3314Z-1-(RC) E (Cross Slot)



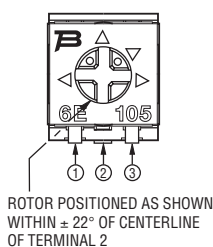
### 3314Z-GA4-(RC) E (Straight Slot)



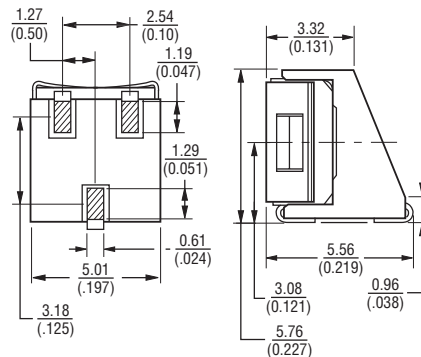
### 3314Z-3 (Reverse Marking, Straight Slot)



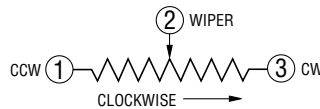
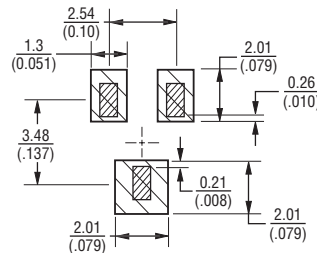
### 3314Z-4-(RC) E (Reverse Marking, Cross Slot)



## 3314Z Common Dimensions



## RECOMMENDED PCB LAYOUT

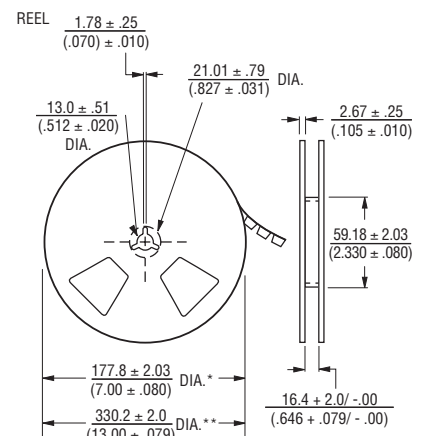
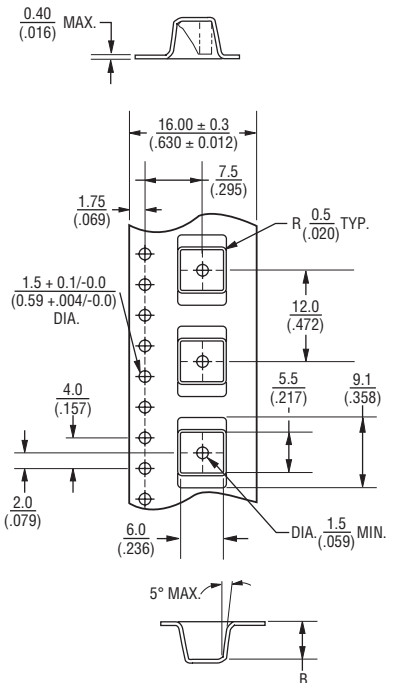


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$   
TOLERANCES:  $\pm 0.25$  EXCEPT WHERE NOTED  
(.010)

## 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. 01/12

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