



**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
- 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 .....	±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.)	
70 °C .....	0.25 watt
125 °C .....	0 watt
Temperature Range ...	-55 °C to +125 °C
Temperature Coefficient ...	±100 ppm/°C
Humidity .....	90-98 % RH, 10 cycles, 240 hours
TRS ±2 %; IR 10 megohms	
Vibration .....	20 G TRS ±1 %; VRS ±1 %
Shock .....	100 G TRS ±1 %; VRS ±1 %
Load Life	
....(@ 70 °C Rated Power 1000 Hours)	
TRS ±3 %	
Rotational Life .....	100 cycles
TRS ±3 %	
Thermal Shock .....	5 cycles
TRS ±2 %; VRS ±1 %	

### Physical Characteristics

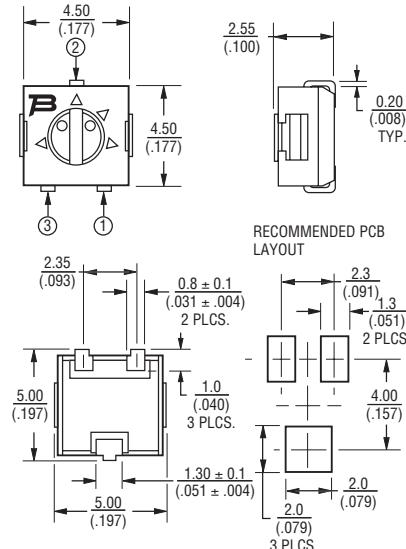
Mechanical Angle .....	240 ° nom.
Torque.....	180 g-cm typical
Stop Strength .....	300 g-cm typical
Pushover Strength (Z Style)	
.....	2 kilograms (4.4 lbs.) minimum
Weight .....	Approximately 0.01 oz.
Marking.....	Manufacturer's code, resistance code and date code
Wiper .....	50 % (Actual TR) ±10 %
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

DIMENSIONS: MM  
(INCHES)

TOLERANCES: ± 0.25  
(.010) EXCEPT WHERE NOTED

### Product Dimensions

3314J-1



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

COMMON DIMENSIONS -  
ALL PIN STYLES:  
STRAIGHT ADJ. SLOT  
2.45 (.096)  
X .51 WIDE  
X (.020) DEEP

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

COMMON DIMENSIONS -  
ALL PIN STYLES:  
CROSS ADJ. SLOT  
2.41 (.095)  
X .51 WIDE  
X (.020) DEEP

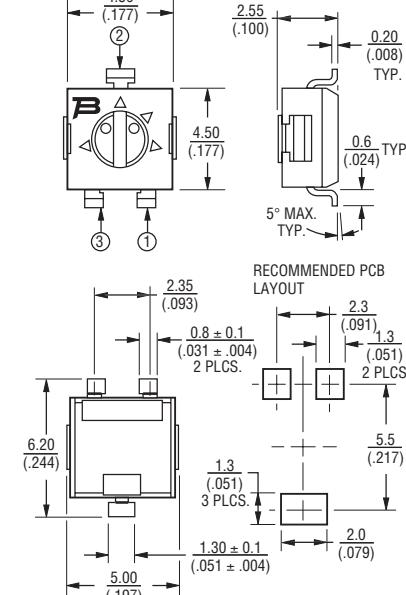
3314J-3, G-3, R-3, H-3  
(Reverse Marking,  
Straight Slot)

COMMON DIMENSIONS -  
ALL PIN STYLES:  
STRAIGHT ADJ. SLOT  
2.45 (.096)  
X .51 WIDE  
X (.020) DEEP

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

COMMON DIMENSIONS -  
ALL PIN STYLES:  
CROSS ADJ. SLOT  
2.41 (.095)  
X .51 WIDE  
X (.020) DEEP

3314G-1



### 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
<b>100</b>	<b>101</b>
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
<b>100,000</b>	<b>104</b>
200,000	204
250,000	254
500,000	504
1,000,000	105
2,000,000	205

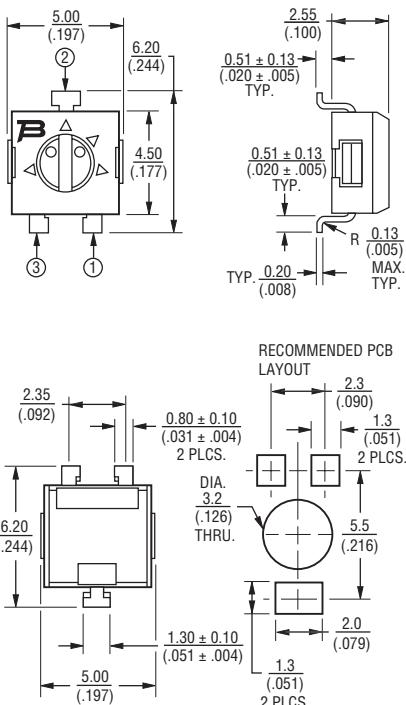
Popular distribution values listed in boldface.  
Special resistances available.

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

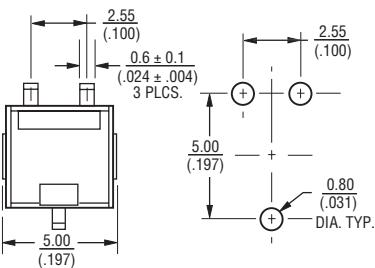
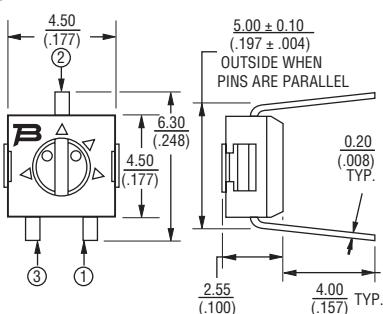
**BOURNS®**

## Product Dimensions

3314R-1



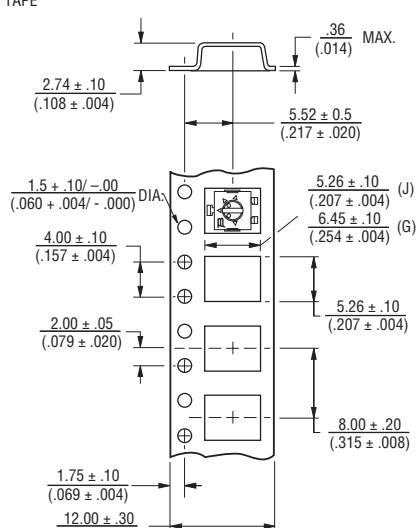
3314H-1



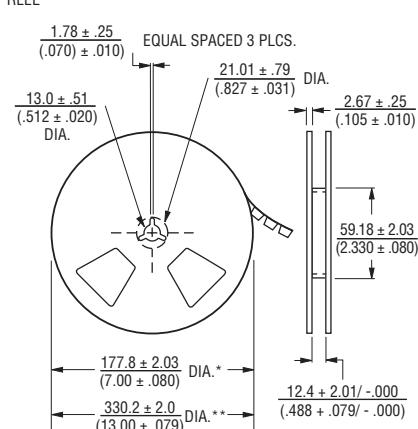
## Packaging Specifications - J, G and R Styles

(J, G Styles)

TAPE



REEL

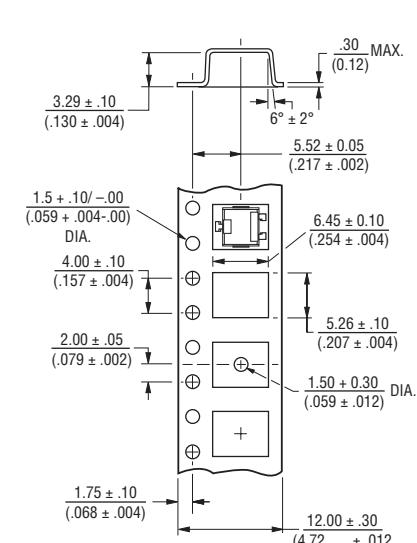


- \* Embossed Tape Designator "E"
- \*\* Embossed Tape Designator "G"
- (See How To Order chart for further information.)

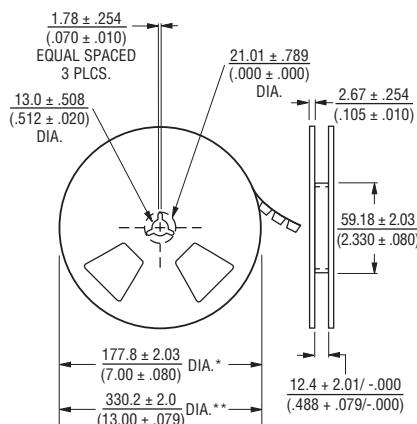
Meets EIA specification 481.

(R Style)

TAPE



REEL



\* Embossed Tape Designator "E"

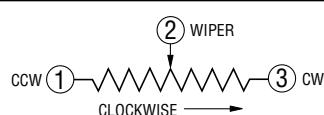
\*\* Embossed Tape Designator "G"

(See How To Order chart for further information.)

Meets EIA specification 481.

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

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

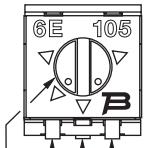


# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

**BOURNS®**

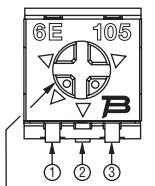
## Product Dimensions

3314S-1  
(Bourns Marking, Straight Slot)



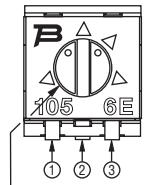
ROTOR POSITIONED AS SHOWN  
WITHIN  $\pm 22^\circ$  OF CENTERLINE  
OF TERMINAL 2

3314S-2  
(Bourns Marking, Cross Slot)



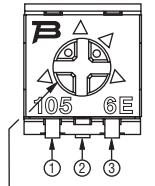
ROTOR POSITIONED AS SHOWN  
WITHIN  $\pm 22^\circ$  OF CENTERLINE  
OF TERMINAL 2

3314S-3  
(Reverse Marking, Straight Slot)



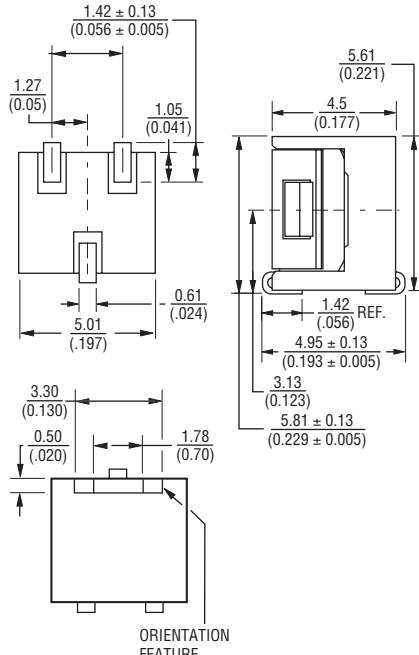
ROTOR POSITIONED AS SHOWN  
WITHIN  $\pm 22^\circ$  OF CENTERLINE  
OF TERMINAL 2

3314S-4  
(Reverse Marking, Cross Slot)

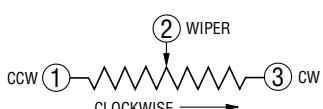
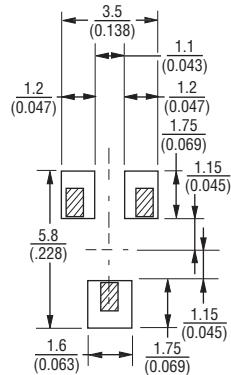


ROTOR POSITIONED AS SHOWN  
WITHIN  $\pm 22^\circ$  OF CENTERLINE  
OF TERMINAL 2

## 3314S Common Dimensions



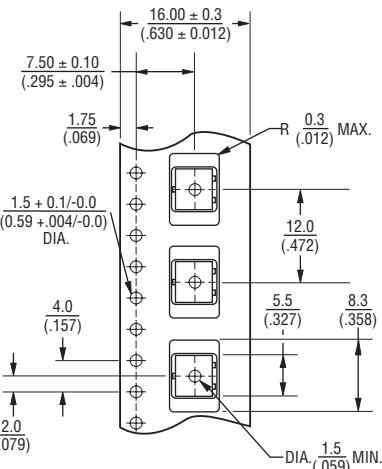
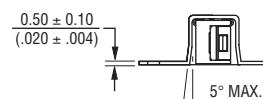
## RECOMMENDED PCB LAYOUT



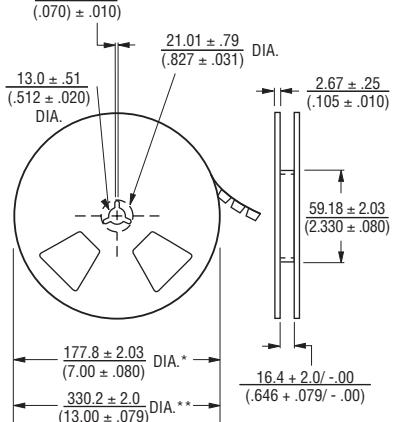
## Packaging Specifications

(S Style)

TAPE



REEL



\* Embossed Tape Designator "E"

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

Meets EIA specification 481.

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

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

Specifications are subject to change without notice.

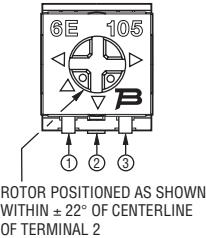
Customers should verify actual device performance in their specific applications.

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

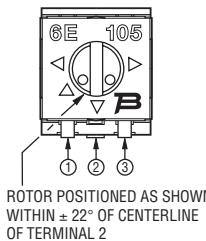
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## Product Dimensions

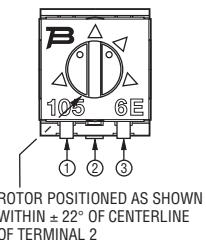
3314Z-1-(RC) E  
(Cross Slot)



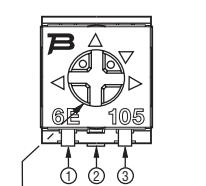
3314Z-GA4-(RC) E  
(Straight Slot)



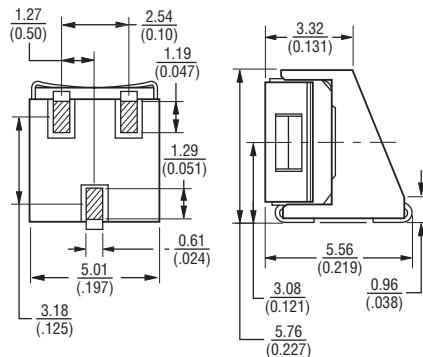
3314Z-3  
(Reverse Marking, Straight Slot)



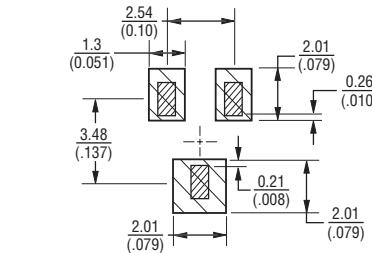
3314Z-4-(RC) E  
(Reverse Marking, Cross Slot)



## 3314Z Common Dimensions



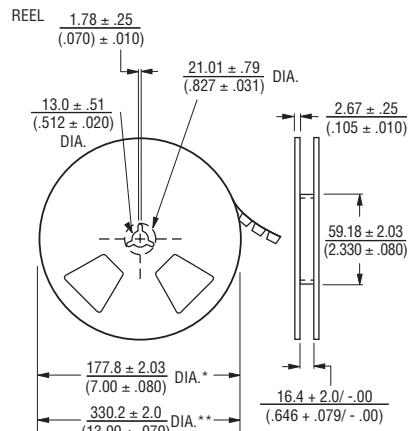
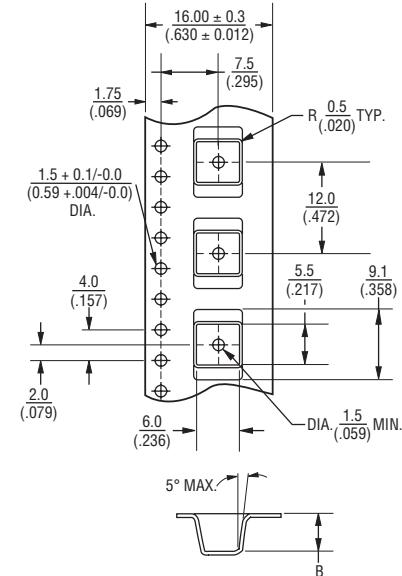
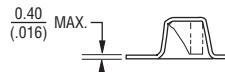
## RECOMMENDED PCB LAYOUT



## Packaging Specifications

(Z Style)

TAPE



\* Embossed Tape Designator "E"

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

Meets EIA specification 481.

