

## **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
- For trimmer applications/processing guidelines, click here
- AEC-Q200 Qualified Grade 1

# 3314 - 4 mm Square Trimpot® Trimming Potentiometer

0.20 (.008)

TYP

### **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. for Style G, J & H; 50 volts max. for Style R) 125 °C ...... 0 watt Temperature Range ... -55 °C to +125 °C Temperature Coefficient ... ±100 ppm/°C Seal Test .. 85 °C Fluorinert 1/60 seconds 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

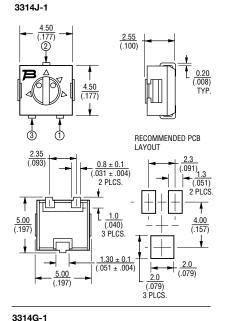
TRS ±2 %; VRS ±1 %

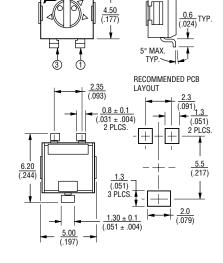
## **Physical Characteristics**

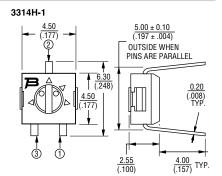
i ilyoloai ollaraotoli	.000
Mechanical Angle	240 ° nom.
Torque	
Stop Strength	
Pushover Strength (S	& Z Style)
1.6 kilogr	
Weight Appr	
MarkingMa	ınufacturer's code,
	ode and date code
Wiper 50 %	
Flammability	U.L. 94V-0
Standard Packaging	
J, G and R500 pc	
S and Z200 pc	
Н	
Adjustment Tool	H-90

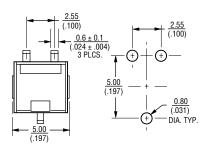
## **Product Dimensions**

2









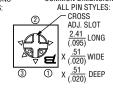
3314J-1, G-1, R-1, H-1 (Bourns Marking, Straight Slot) 3314J-2, G-2, R-2, H-2

(Bourns Marking, Cross Slot) COMMON DIMENSIONS COMMON DIMENSIONS ALL PIN STYLES: ALL PIN STYLES: STRAIGHT ADJ. SLOT CROSS ADJ. SLOT  $\frac{2.41}{(.095)}$  LONG  $\frac{2.45}{(.096)}$  LONG .51 WIDE .51 (.020) WIDE X (.51) DEEP X (.020) DEEP

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

COMMON DIMENSIONS ALL PIN STYLES: STRAIGHT ADJ. SLOT  $\frac{2.45}{(.096)}$  LONG .<u>.51</u> WIDE X (.020) DEEP





MM DIMENSIONS: (INCHES) TOLERANCES: ± -EXCEPT WHERE NOTED (.012)



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

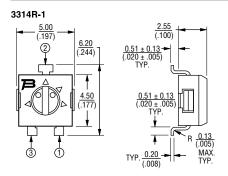
\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

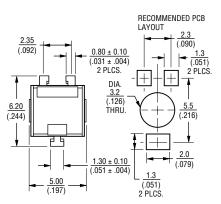
"Trimpot" is a trademark of Bourns, Inc. | "Fluorinert" is a registered trademark of 3M Co.

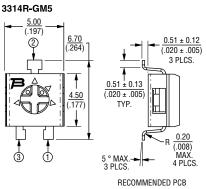
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

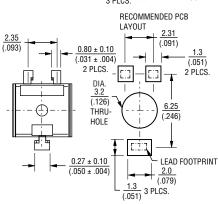
## **BOURNS**®

### **Product Dimensions**

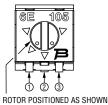








## 3314S-1 (Bourns Marking, Straight Slot)



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)



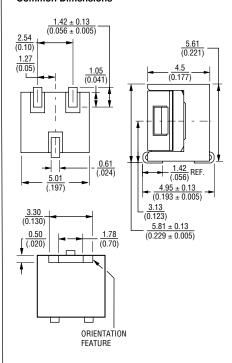
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

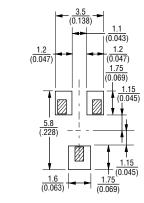


ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

### 3314S Common Dimensions



## RECOMMENDED PCB LAYOUT



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

TOLERANCES:  $\pm \frac{0.30}{(0.12)}$ 

EXCEPT WHERE NOTED

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### **Product Dimensions**

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



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

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



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

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



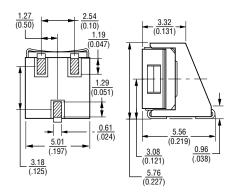
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

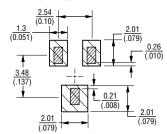


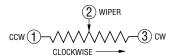
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

### 3314Z Common Dimensions



RECOMMENDED PCB LAYOUT

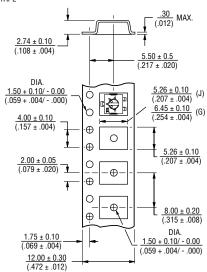




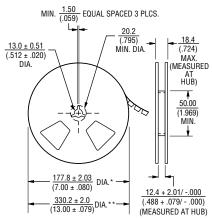
## **Packaging Specifications**

## (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.

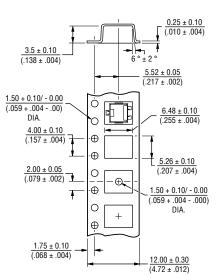
MM DIMENSIONS: (INCHES) TOLERANCES: ± -**EXCEPT WHERE NOTED** (.012)

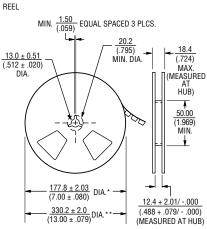
## BOURNS

## **Packaging Specifications**

## (R Style)

TAPE





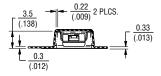
- \* Embossed Tape Designator "E"
- Embossed Tape Designator "G" (See How To Order chart for further information.)

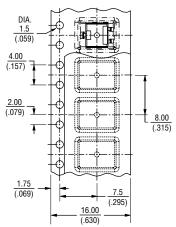
Meets EIA specification 481.

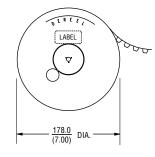
DIMENSIONS: 
$$\frac{\text{MM}}{(\text{INCHES})}$$

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

## (R-GM5 Style)

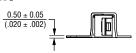


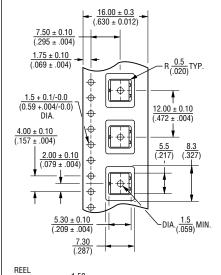


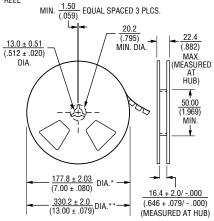


### (S Style)

TAPE







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

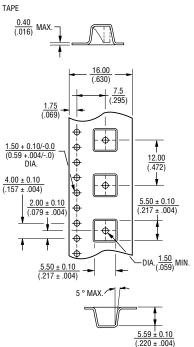
Meets EIA specification 481.

**How To Order** 

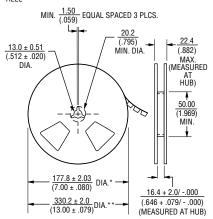
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## **Packaging Specifications**

## (Z Style)



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: ± 0.30 (.012)	EXCEPT WHERE NOTED

## REV. 08/28/19

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## **Standard Resistance Table**

Resistance	Resistance
(Ohms)	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.

## 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.

## **BOURNS**®

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