

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 quidelines, click here

3314 - 4 mm Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range10 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 Variation3 % or 3 ohms

Resolution Infinite Insulation Resistance500 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 Humidity90-98 % RH, 10 cycles, 240 hours TRS ±2 %; IR 10 megohms Vibration20 G TRS ±1 %; VRS ±1 %

Shock 100 G TRS ±1 %; VRS ±1 % Load Life

....(@ 70 °C Rated Power 1000 Hours) TRS ±3 % Rotational Life100 cycles TRS ±3 %

Thermal Shock5 cycles TRS ±2 %; VRS ±1 %

Mechanical Angle 240 ° nom.

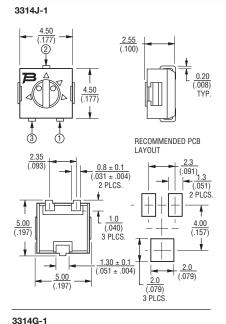
Physical Characteristics

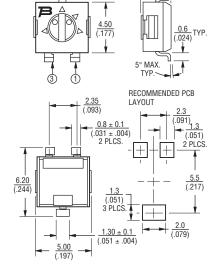
	180 g-cm max.
Stop Strength	300 g-cm min.
Pushover Strength	(S & Z Style)
1.6 kild	ograms (3.5 lbs.) min.
Weight Ar	oproximately 0.01 oz.
Marking	Manufacturer's code
resistance	code and date code
Wiper50	% (Actual TR) ±10 %
Flammability	U.L. 94V-0
Standard Packagin	g
J, G and R500	pcs./7 " reel (MSL-1)
S and Z200	pcs./7 " reel (MSL-1)
Н	100 pcs /tube

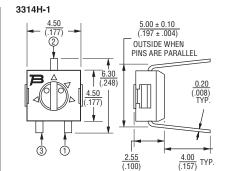
Adjustment Tool......H-90

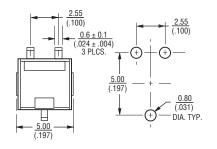
Product Dimensions

2









3314J-1, G-1, R-1, H-1

0.20

TYP

(Bourns Marking, Straight Slot) ALL PIN STYLES:

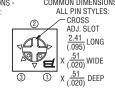


3314J-3, G-3, R-3, H-3 (Reverse Marking, Straight Slot)

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

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

3314J-2, G-2, R-2, H-2



DIMENSIO	NS: (I	MM NCHES)
TOLERANCES: $\pm \frac{0.2}{(.01)}$		EXCEPT WHERE NOTED



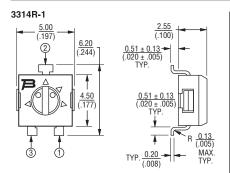
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

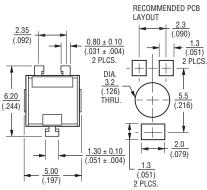
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. †"Fluorinert" is a registered trademark of 3M Co.

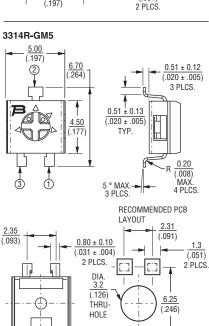
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

BOURNS®

Product Dimensions







 0.27 ± 0.10

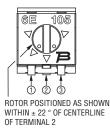
(.050 ± .004)

LEAD FOOTPRINT

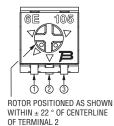
(.079)

1.3 (.051) 3 PLCS.

3314S-1 (Bourns Marking, Straight Slot)



3314S-2 (Bourns Marking, Cross Slot)



3314S-3 (Reverse Marking, Straight Slot)



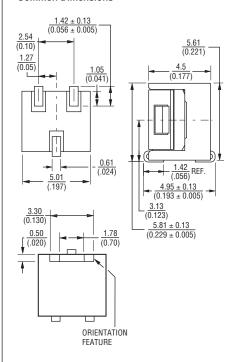
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314S-4 (Reverse Marking, Cross Slot)

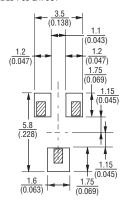


ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314S Common Dimensions



RECOMMENDED PCB LAYOUT



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

BOURNS

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)



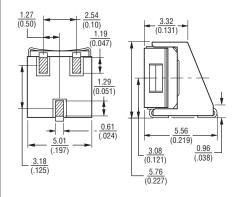
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

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

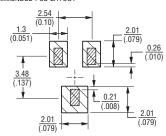


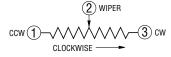
ROTOR POSITIONED AS SHOWN WITHIN ± 22 ° OF CENTERLINE OF TERMINAL 2

3314Z Common Dimensions



RECOMMENDED PCB LAYOUT

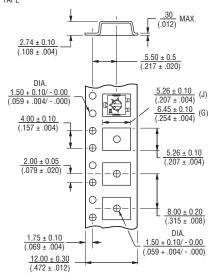




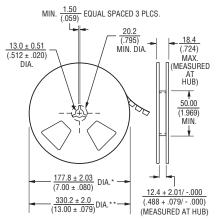
Packaging Specifications

(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.

DIMENSIONS: MM/(INCHES)

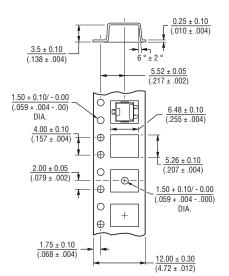
TOLERANCES: ± 0.25/(.010) EXCEPT WHERE NOTED

BOURNS

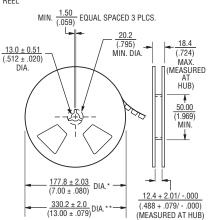
Packaging Specifications

(R Style)

TAPE



REEL



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

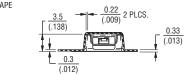
Meets EIA specification 481.

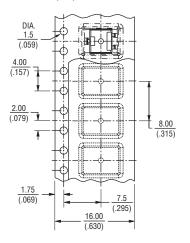
DIMENSIONS:
$$\frac{\text{MM}}{(\text{INCHES})}$$

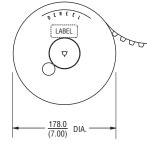
TOLERANCES: $\pm \frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

(R-GM5 Style)

IAP

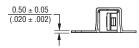


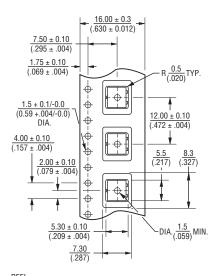


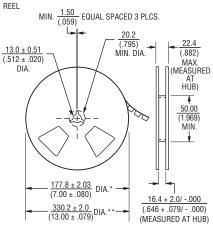


(S Style)

TAPE







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

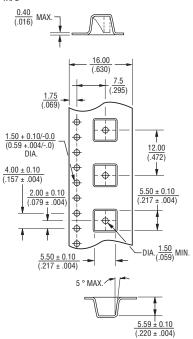
Meets EIA specification 481.

BOURNS

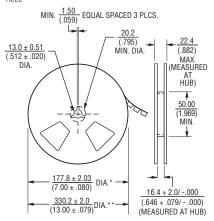
Packaging Specifications



TAPE



REEL



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

Meets EIA specification 481.

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

REV. 08/18

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	Resistance
(Ohms)	Code
10	100
20	200
50	500
100 200 500 1,000 2,000 5,000 10,000 20,000 50,000	101 201 501 102 202 502 103 203 503 104
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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3314H-1-104 3314H-1-101 3314H-1-105 3314H-1-102 3314H-1-103 3314J-1-754E 3314J-1-504 3314H-1-501 3314J-1-500 3314H-1-503 3314H-1-502 3314G-1-254E 3314Z-GA4-203E 3314Z-GA4-205E 3314Z-GA4-201E 3314Z-GA4-103E 3314Z-GA4-101E 3314G-1-504E 3314G-2-503E 3314J-2-503G 3314J-2-503G 3314J-2-501E 3314J-2-503E 3314J-2-503E 3314J-2-503E 3314J-2-503E 3314J-2-503E 3314J-2-504E 3314G-2-504E 3314J-1-504E 3314G-2-504E 3314J-1-504E 3314G-1-504E 3314J-1-504E 3314J-1-504E 3314Z-1-504E 3314Z-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314J-1-503E 3314Z-1-503E 3314Z-1-503E