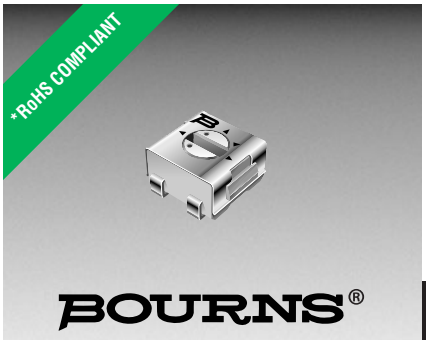


Features

- 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

3314 - 4 mm Square 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

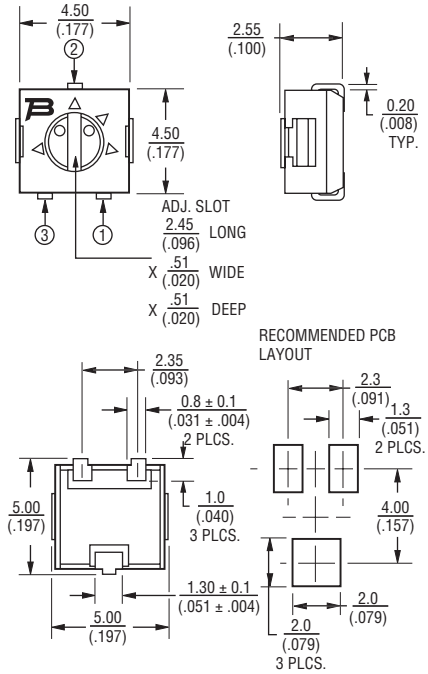
Mechanical Angle .....240 ° nom.
Torque .....180 g-cm typical
Stop Strength.....300 g-cm typical
Pushover Strength (Z Style)
.....2 kilograms (4.4 lbs.) minimum
Weight .....Approximately 0.01 oz.
Marking .....Manufacturer's code,
resistance code and date code
Wiper.....50 % (Actual TR) ±10 %
Flammability.....U.L.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

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

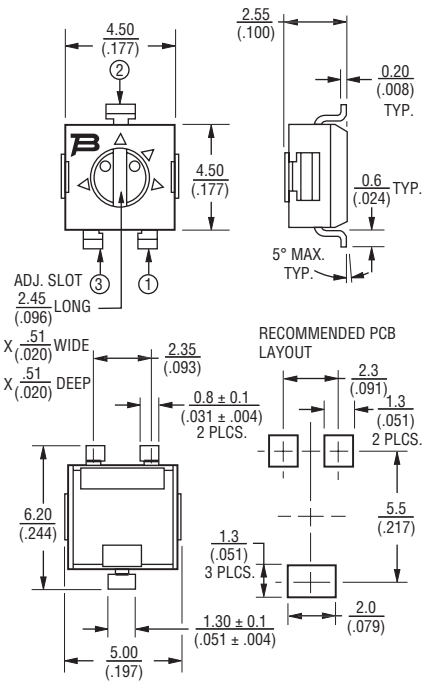
DIMENSIONS ARE: MM / (INCHES)

Product Dimensions

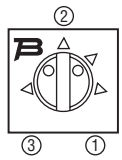
3314J-1



3314G-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)

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
Product Indicator (Style Z only)
-GA4 = Single Slot
-1 = Cross Slot
-3 = Single 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
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 resistance values listed in boldface. Special resistances available.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Additional Features

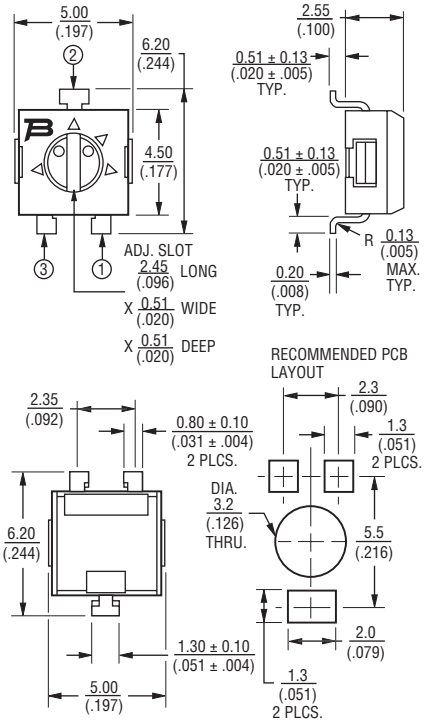
- Model 3314 has been approved for use by DESC on drawings 88039 (3314J) and 90027 (3314G)

3314 - 4 mm Square Trimming Potentiometer

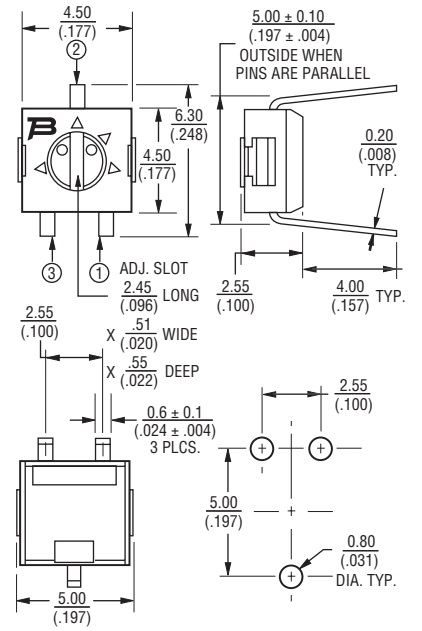
BOURNS®

Product Dimensions

3314R-1



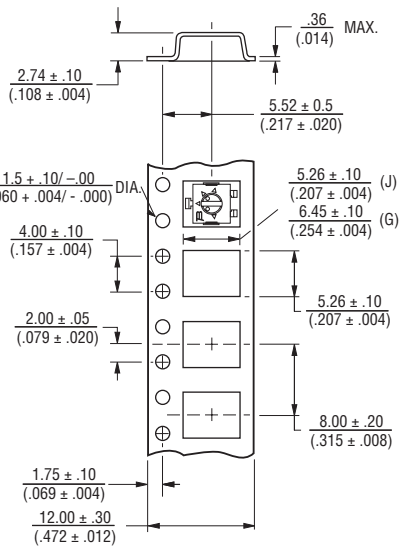
3314H-1



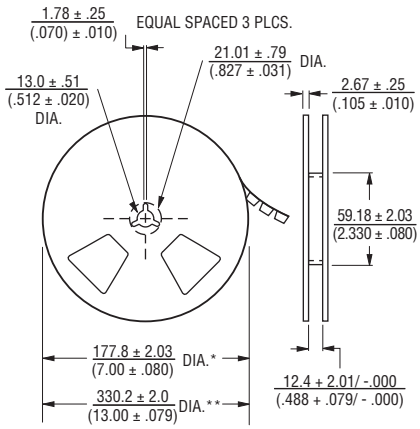
Packaging Specifications - J, G and R Styles

(J, G Styles)

TAPE

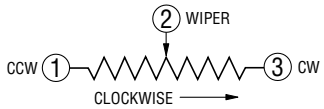


REEL



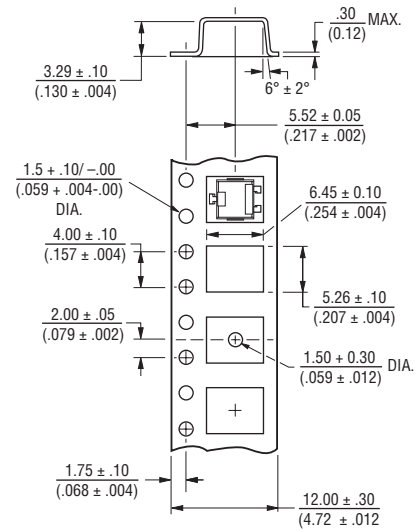
* Embossed Tape Designator "E"
** Embossed Tape Designator "G"
(See How To Order chart for further information.)

Meets EIA specification 481.

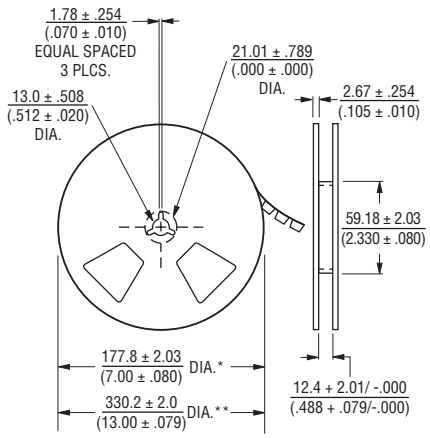


(R Style)

TAPE



REEL



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

Meets EIA specification 481.

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

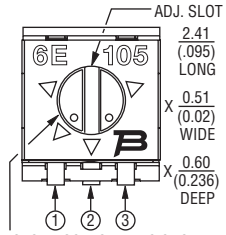
DIMENSIONS ARE: MM / (INCHES)

3314 - 4 mm Square Trimming Potentiometer

BOURNS®

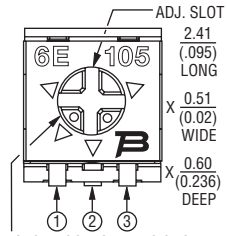
Product Dimensions

3314S-1
(Bourns Marking, Straight Slot)



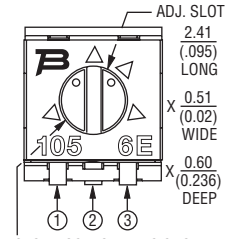
ROTOR POSITIONED AS SHOWN
WITHIN ± 22° OF CENTERLINE
OF TERMINAL 2

3314S-2
(Bourns Marking, Cross Slot)



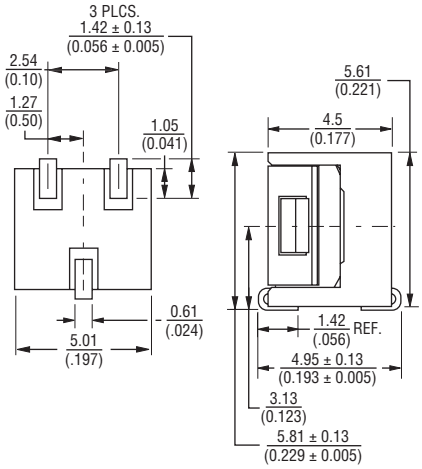
ROTOR POSITIONED AS SHOWN
WITHIN ± 22° OF CENTERLINE
OF TERMINAL 2

3314S-3
(Reverse Marking, Straight Slot)

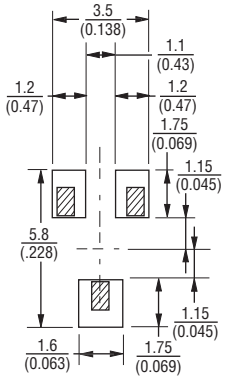


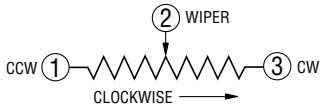
ROTOR POSITIONED AS SHOWN
WITHIN ± 22° OF CENTERLINE
OF TERMINAL 2

3314S
Common Dimensions



RECOMMENDED PCB LAYOUT





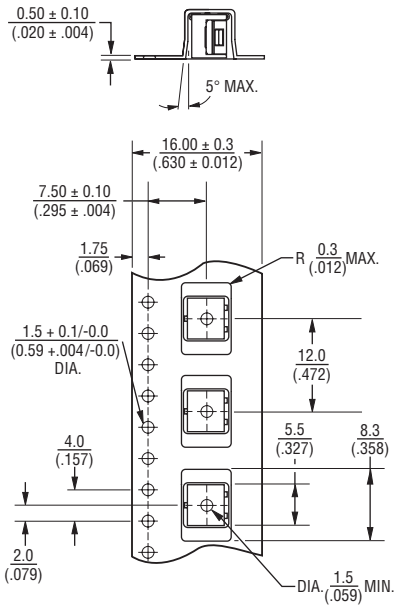
TOLERANCES: ± 0.30 (.012) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM / (INCHES)

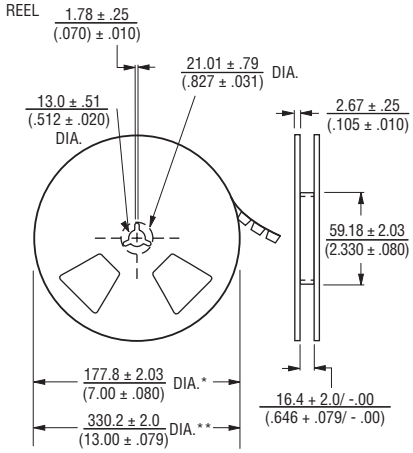
Packaging Specifications

(S Style)

TAPE



REEL



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

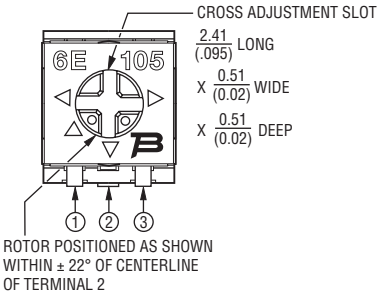
Meets EIA specification 481.

3314 - 4 mm Square Trimming Potentiometer

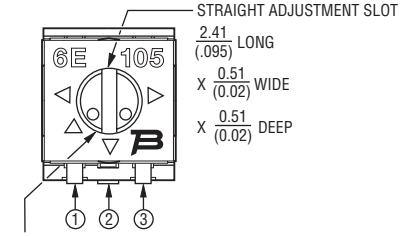
BOURNS®

Product Dimensions

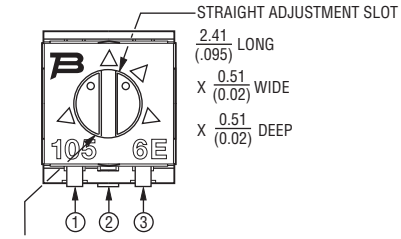
3314Z-1-(RC) E
(Cross Slot)



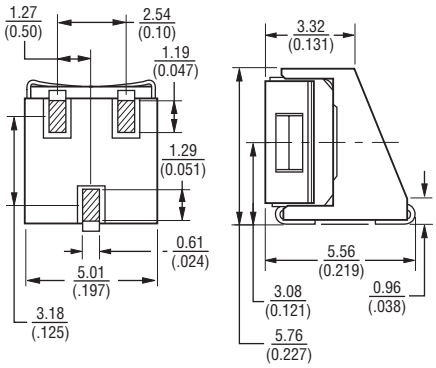
3314Z-GA4-(RC) E
(Straight Slot)



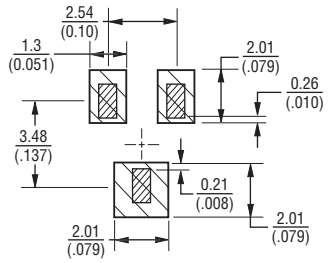
3314Z-3
(Reverse Marking, Straight Slot)

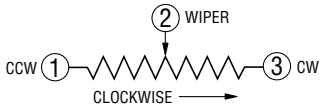


3314Z
Common Dimensions



RECOMMENDED PCB LAYOUT





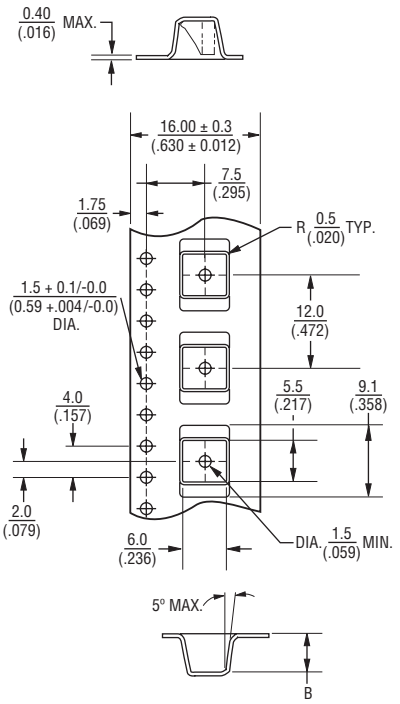
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM / (INCHES)

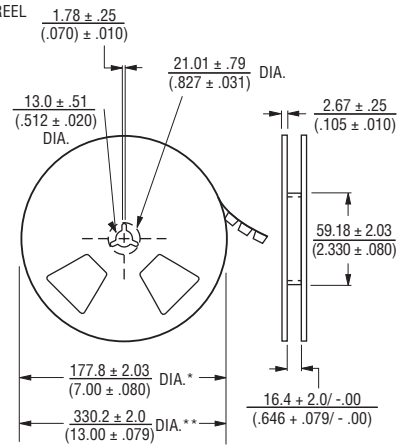
Packaging Specifications

(Z Style)

TAPE



REEL



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

Meets EIA specification 481.

REV. 09/04