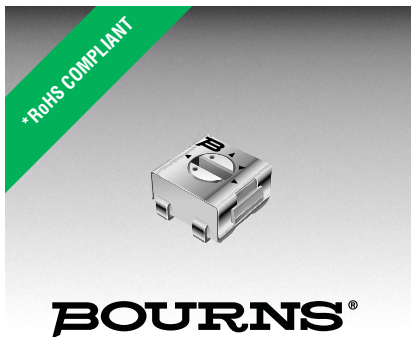




Features

- 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 $\pm 20\%$ 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° nom.

Environmental Characteristics

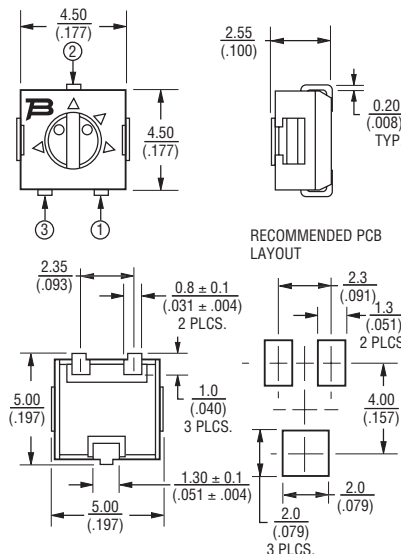
Power Rating (300 volts max.)
70 °C 0.25 watt
125 °C 0 watt
Temperature Range ... -55 °C to +125 °C
Temperature Coefficient ... ± 100 ppm/°C
Humidity 90-98 % RH,
10 cycles, 240 hours
TRRS $\pm 2\%$; IR 10 megohms
Vibration 20 G TRRS $\pm 1\%$; VRS $\pm 1\%$
Shock 100 G TRRS $\pm 1\%$; VRS $\pm 1\%$
Load Life
..... (@ 70 °C Rated Power 1000 Hours)
TRRS $\pm 3\%$
Rotational Life 100 cycles
TRRS $\pm 3\%$
Thermal Shock 5 cycles
TRRS $\pm 2\%$; VRS $\pm 1\%$

Physical Characteristics

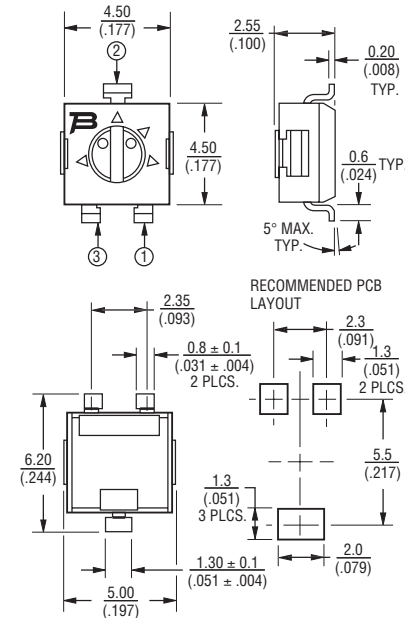
Mechanical Angle 240° nom.
Torque 180 g-cm typical
Stop Strength 300 g-cm typical
Pushover Strength (Z Style)
..... 2 kilograms (4.4 lbs.) minimum
Weight Approximately 0.01 oz.
Marking Manufacturer's code,
resistance code and date code
Wiper 50 % (Actual TR) $\pm 10\%$
Flammability U.L. 94V-0
Standard 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

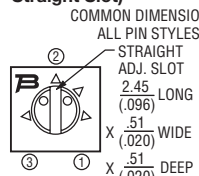
3314J-1



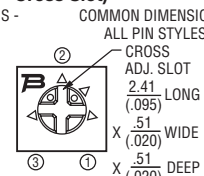
3314G-1



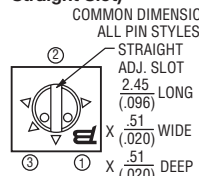
3314J-1, G-1, R-1, H-1
(Bourns Marking,
Straight Slot)



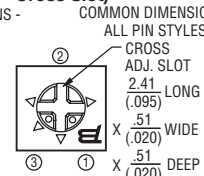
3314J-2, G-2, R-2, H-2
(Bourns Marking,
Cross Slot)



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



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
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.

*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.

BOURNS®

Packaging Specifications - J, G and R Styles

Figure 1: Dimensions of the 1000 Series. The figure contains three diagrams: a top view, a side view, and a bottom view. The top view shows a square component with a 'B' logo, a central circular feature, and four pins labeled 1, 2, 3, and 4. Dimensions include 4.50 (.177) for pin spacing, 6.30 (.248) for the central feature diameter, and 4.50 (.177) for the overall width. The side view shows the component's profile with a height of 5.00 ± 0.10 (.197 ± .004) and a pin height of 0.20 (.008) TYP. The bottom view shows the component from below with dimensions 2.55 (.100) for pin spacing, 0.6 ± 0.1 (.024 ± .004) 3 PLCS. for the central feature, and 5.00 (.197) for the overall width. A circular feature with a diameter of 0.80 (.031) DIA. TYP. is also shown.

Technical drawing of a circular part with three slots. The drawing includes a top view and a side view.

Top View Dimensions:

- Slot width: $1.78 \pm .25$ ($.070 \pm .010$)
- Distance from center to slot edge: $13.0 \pm .51$ ($.512 \pm .020$) DIA.
- Distance from center to part edge: 177.8 ± 2.03 ($7.00 \pm .080$) DIA.*
- Distance from center to slot edge: 330.2 ± 2.0 ($13.00 \pm .079$) DIA.**
- Text: EQUAL SPACED 3 PLCS.

Side View Dimensions:

- Part thickness: $2.67 \pm .25$ ($.105 \pm .010$) DIA.
- Distance from center to slot edge: 59.18 ± 2.03 ($2.330 \pm .080$)
- Distance from center to part edge: $12.4 \pm 2.01/- .000$ ($488 \pm .079/- .000$)

1.78 ± .254
(.070 ± .010)
EQUAL SPACED
3 PLCS.

13.0 ± .508
(.512 ± .020)
DIA.

21.01 ± .789
(.000 ± .000)
DIA.

2.67 ± .254
(.105 ± .010)

59.18 ± 2.03
(2.330 ± .080)

177.8 ± 2.03
(7.00 ± .080) DIA. *

330.2 ± 2.0
(13.00 ± .079) DIA. **

12.4 ± 2.01/- .000
(.488 ± .079/- .000)

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

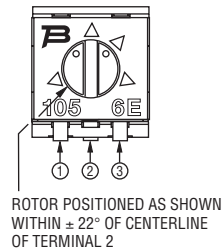
3314S-1 (Bourns Marking, Straight Slot)



3314S-2 (Bourns Marking, Cross Slot)



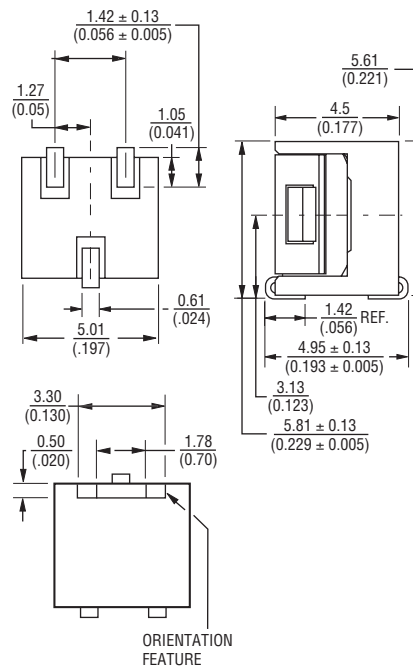
3314S-3 (Reverse Marking, Straight Slot)



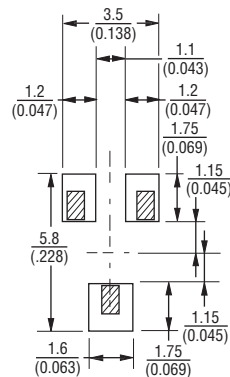
3314S-4 (Reverse Marking, Cross Slot)



3314S Common Dimensions



RECOMMENDED PCB LAYOUT



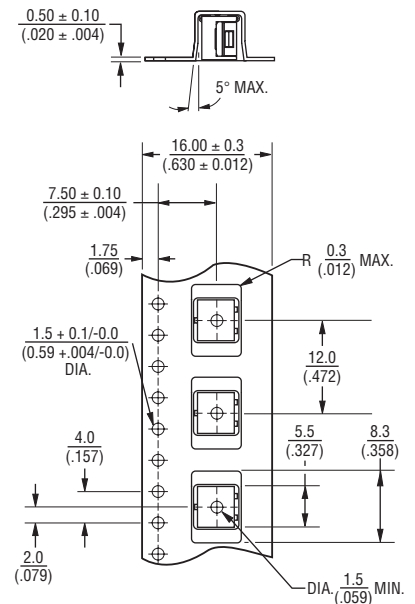
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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

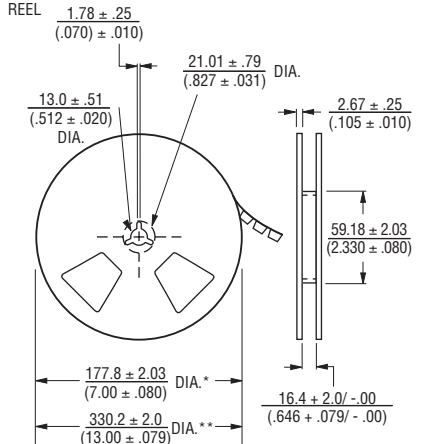
Packaging Specifications

(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

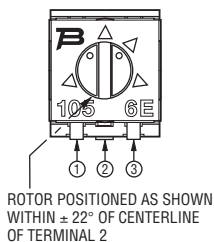
3314Z-1-(RC) E (Cross Slot)



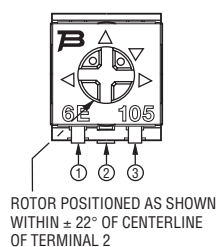
3314Z-GA4-(RC) E (Straight Slot)



3314Z-3 (Reverse Marking, Straight Slot)



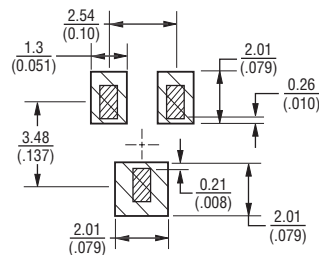
3314Z-4-(RC) E (Reverse Marking, Cross Slot)



3314Z Common Dimensions



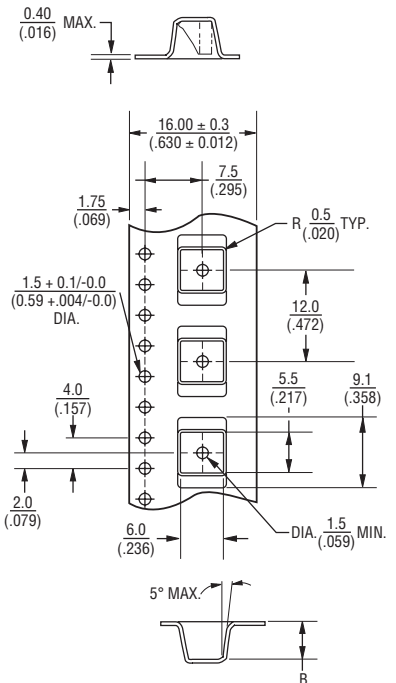
RECOMMENDED PCB LAYOUT



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

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

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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