

\*RoHS COMPLIANT



**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 Timpot® 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:  $\frac{MM}{(INCHES)}$   
 TOLERANCES: ±  $\frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

**Product Dimensions**

3314J-1



RECOMMENDED PCB LAYOUT



3314G-1



RECOMMENDED PCB LAYOUT



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
<b>100</b>	<b>101</b>
<b>200</b>	<b>201</b>
<b>500</b>	<b>501</b>
<b>1,000</b>	<b>102</b>
<b>2,000</b>	<b>202</b>
<b>5,000</b>	<b>502</b>
<b>10,000</b>	<b>103</b>
<b>20,000</b>	<b>203</b>
<b>50,000</b>	<b>503</b>
<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.

\*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.

# 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



(R Style)

TAPE



REEL



REEL



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

Meets EIA specification 481.

\* 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)



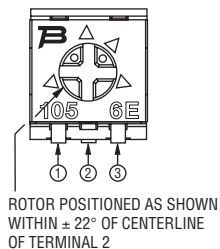
**3314S-2**  
(Bourns Marking, Cross Slot)



**3314S-3**  
(Reverse Marking, Straight Slot)



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



**3314S**  
Common Dimensions



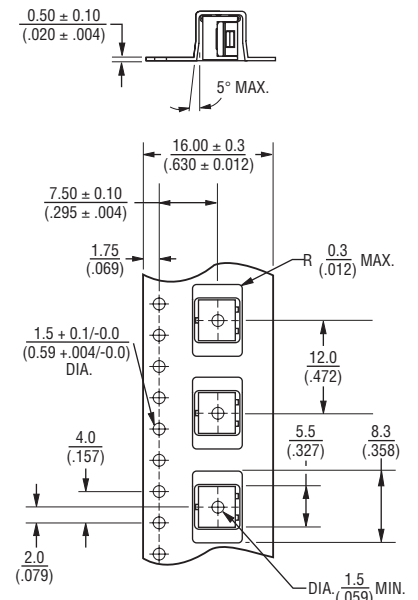
RECOMMENDED PCB LAYOUT



## 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: ±  $\frac{0.30}{(0.012)}$  EXCEPT WHERE NOTED

# 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



DIMENSIONS:  $\frac{\text{MM}}{\text{INCHES}}$   
TOLERANCES: ± 0.25 (0.010) EXCEPT WHERE NOTED

## 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.



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.