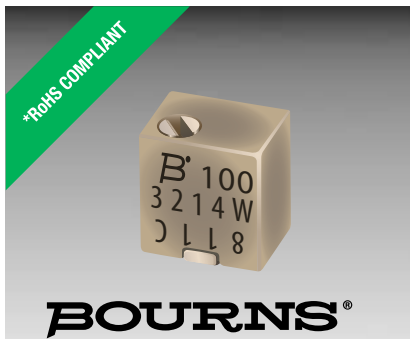




THE DATASHEET OF 3214W-1-105E





Features

- Surface Mount 4 mm Square / Multiturn Cermet / Industrial / Sealed
- Halogen free** with date code 114
- Sealed to withstand board wash processing
- Pick and place centering design, with flush adjustment

- 4 mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- RoHS compliant** - see [processing information](#) on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

3214 - 5-Turn Trimptot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 ohms to 2 megohms
(see standard resistance table)
Resistance Tolerance $\pm 10\%$ std.
Absolute Minimum Resistance 1 % or 2.0 ohms (whichever is greater)
Contact Resistance Variation 3 % or 3 ohms max.
Resolution Essentially Infinite
Insulation Resistance 500 vdc.
100 megohms min.
Dielectric Strength
Sea Level 600 vac (1 minute)
Adjustment Angle 5 turns nom.

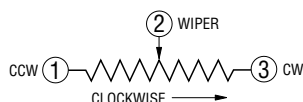
Environmental Characteristics

Power Rating (300 volts max.)
85 °C 0.25 watt
150 °C 0 watt
Temperature Range -65 °C to +150 °C
Temperature Coefficient ± 100 ppm/°C
Seal Test 85 °C Fluorinert†/60 seconds
Humidity MIL-STD 202 Method 106
TRS $\pm 2\%$; IR 10 megohms
Vibration 20 G TRS $\pm 1\%$; VRS $\pm 1\%$
Shock 100 G TRS $\pm 1\%$; VRS $\pm 1\%$
Load Life
..... @ 85 °C rated power 1,000 hours
TRS 3 ohms or 3 % (whichever is greater)
Rotational Cycling 200 cycles
TRS 3 ohms or 3 % (whichever is greater)
Thermal Shock 5 cycles
TRS $\pm 2\%$; VRS $\pm 1\%$
Moisture Sensitivity Level 1
ESD Classification 2

Physical Characteristics

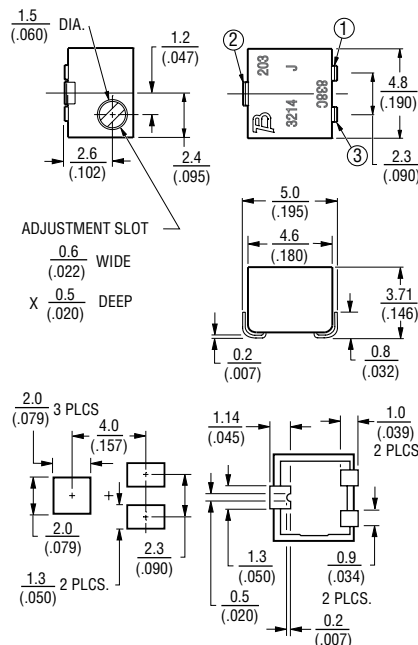
Mechanical Stop Wiper idles
Torque 180 g-cm max.
Weight Approximately 0.01 oz.
Marking Manufacturer's code, resistance code and date code
Solderability Per MIL-STD-202, Method 208
Wiper 50 % (Actual TR) $\pm 10\%$
Flammability UL94V0
Pushover Strength
J, G 4.4 lbs.
W, X 1 lb.
Adjustment Tool H-91

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

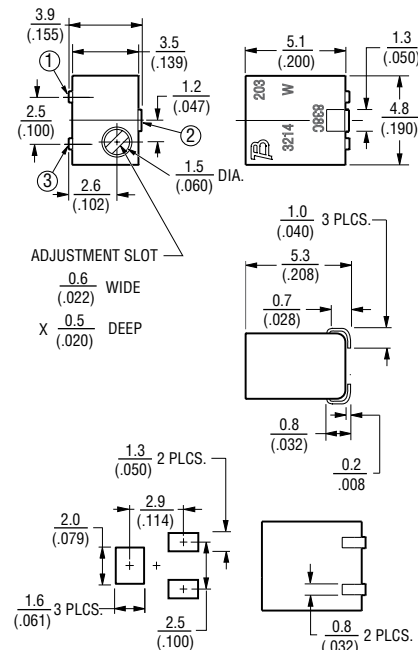


Product Dimensions

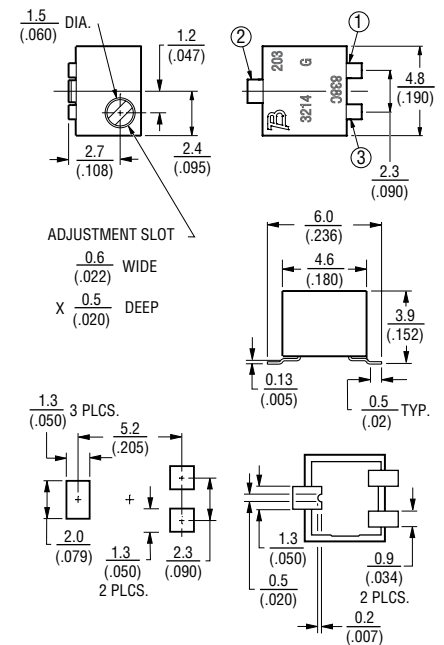
3214J Side Adjust



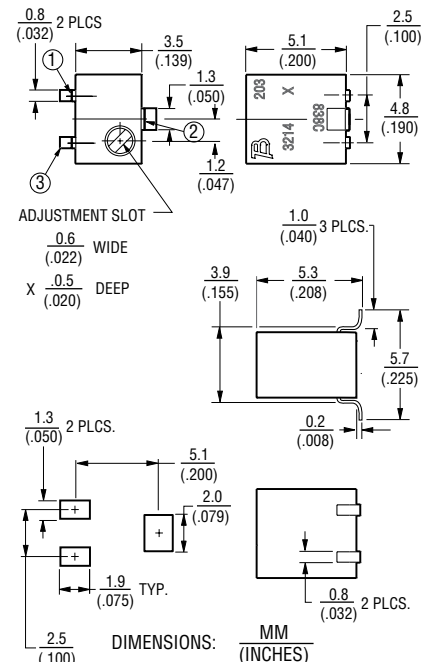
3214W Top Adjust



3214G Side Adjust



3214X Top Adjust



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

** Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

"Trimptot" is a trademark of Bourns, Inc. †"Fluorinert" is a registered trademark of 3M Co.

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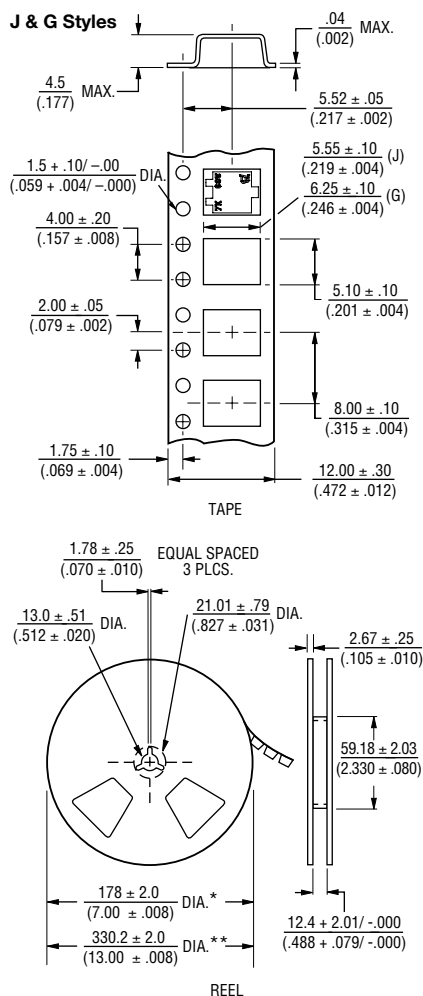
WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

3214 - 5-Turn Trimpot® Trimming Potentiometer

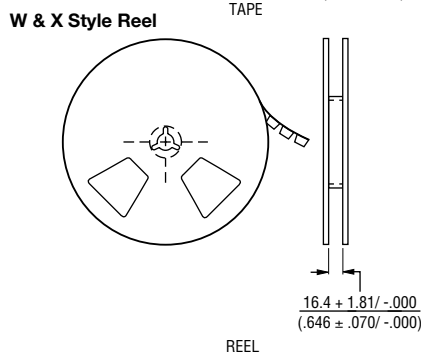
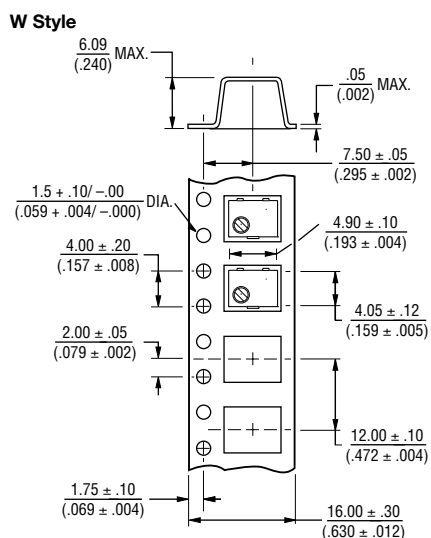
BOURNS®

Packaging Specifications



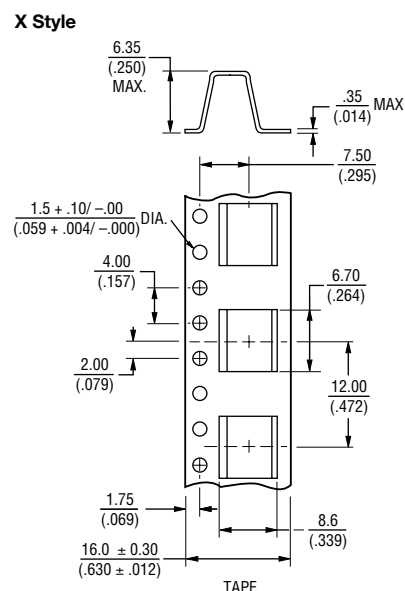
* Embossed Tape Designator "E"
 ** Embossed Tape Designator "G"
 (See How To Order chart for further information.)

Cover tape peel strength: Meets EIA specification 481.



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

Cover tape peel strength: Meets EIA specification 481.



How To Order

Model **3214 J - 1 - 502 E**
 Style _____
 Standard or Modified _____
 Product Indicator
 -1 = IR Reflow (standard)
 †-2 = Wave Solderable
 -FW5 = .070" ± .010" Shaft Extension
 Resistance Code _____

Embossed Tape Designator
 E = Style J, G: 500 pcs./7" reel (standard)
 Style W: 250 pcs./7" reel (standard)
 Style X: 200 pcs./7" reel (standard)
 G = Style J, G: 1500 pcs./13" reel (standard)
 Style W: 1000 pcs./13" reel (standard)
 Style X: 850 pcs./13" reel (standard)
 G = Style J, G: 1500 pcs./13" reel (FW5)
 Style W, X: 600 pcs./13" reel (FW5)

Consult factory for other available options.
 † -2 has a treated stainless steel shaft

Tape and reel material meets Antistatic ANSI/ESD 5541-2003 packaging standards.

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

Resistance (Ohms)	Resistance Code
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105
2,000,000	205

Popular distribution values listed in boldface.
 Special resistances available.

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REV. 08/19

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