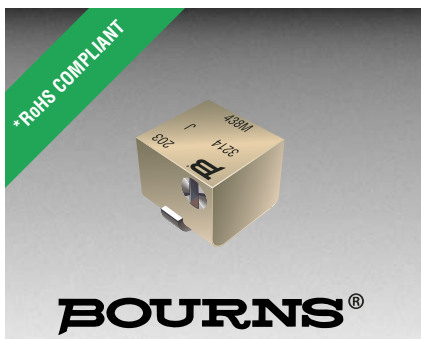




Features

- Surface Mount 4 mm Square / Multiturn Cermet / Industrial / Sealed
- 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
- Patent #5047746 advanced drive/wiper mechanism
- RoHS compliant* - see [processing information](#) on lead free surface mount trimmers

3214 - 5-Turn Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range

.....10 ohms to 2 megohms
(see standard resistance table)

Resistance Tolerance±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 Resistance500 vdc.

100 megohms min.

Dielectric Strength

Sea Level600 vac (1 minute)

Adjustment Angle.....5 turns nom.

Environmental Characteristics

Power Rating (300 volts max.)

85 °C0.25 watt

150 °C0 watt

Temperature Range-65 °C to +150 °C

Temperature Coefficient±100 ppm/°C

HumidityMIL-STD 202 Method 106

TRS ±2 %; IR 10 megohms

Vibration20 G TRS±1 %; VRS ±1 %

Shock100 G TRS ±1 %; VRS ±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 ±2 %; VRS ±1 %

Physical Characteristics

Mechanical StopWiper idles

Torque180 g-cm max.

WeightApproximately 0.01 oz.

MarkingManufacturer's code,

resistance code and date code

SolderabilityPer MIL-STD-202,

Method 208

Wiper.....50 % (Actual TR) ±10 %

FlammabilityUL94V0

Pushover Strength

J, G4.4 lbs.

W, X1 lb.

Adjustment ToolH-91

How To Order

3214 J - 1 - 502 E

Model _____

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)

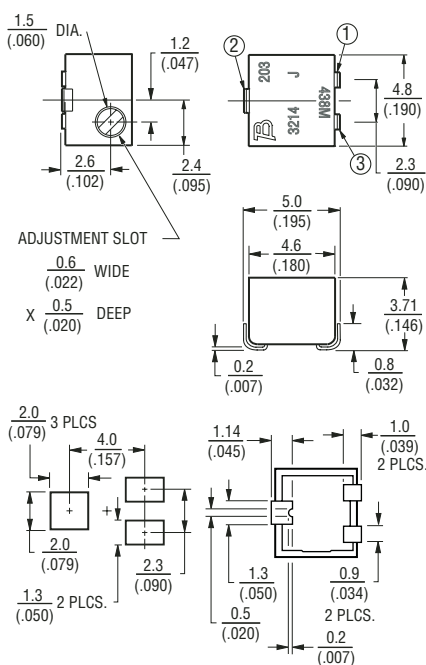
G = Style J, G: 1500 pcs./13" reel (FW5)

Style W, X: 600 pcs./13" reel (FW5)

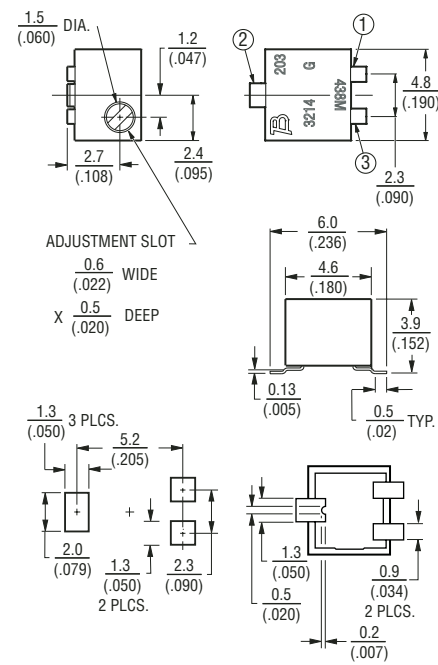
Consult factory for other available options.

† -2 has a treated stainless steel shaft

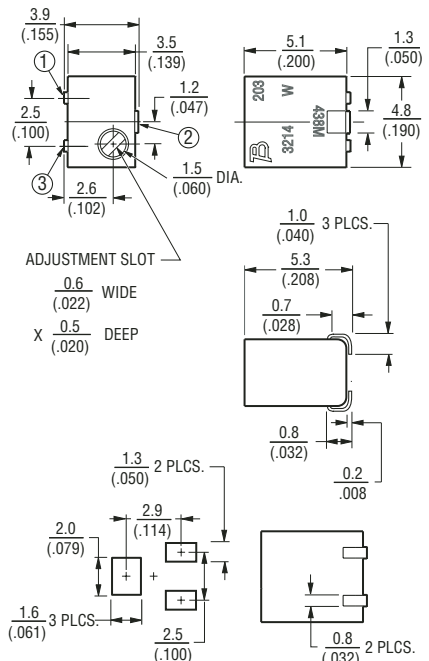
3214J Side Adjust



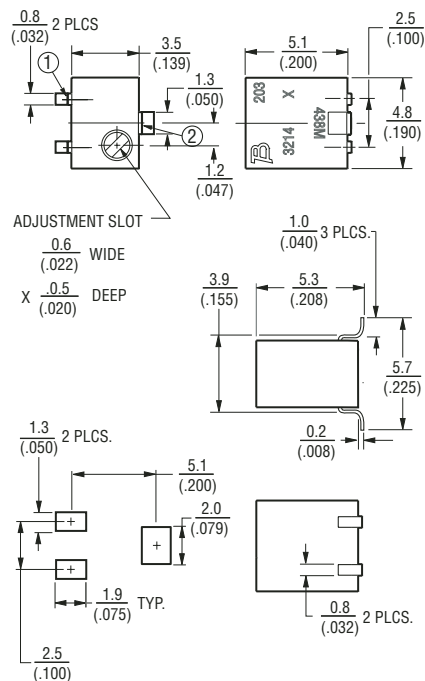
3214G Side Adjust



3214W Top Adjust



3214X Top Adjust



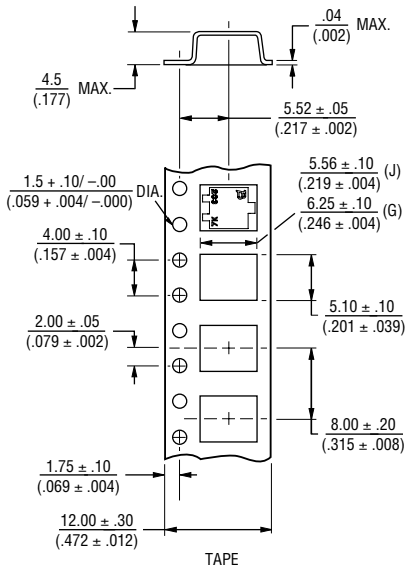
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex. Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

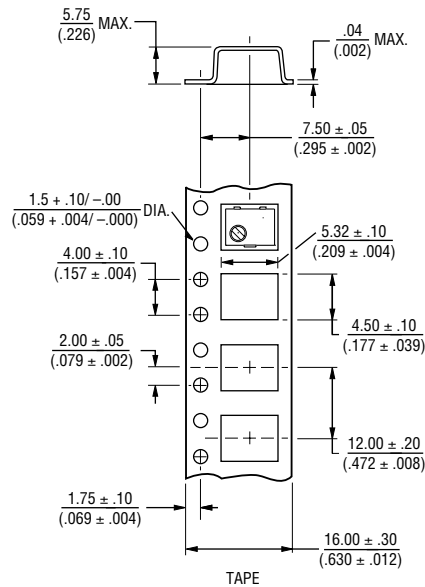
3214 - Packaging Specifications

BOURNS®

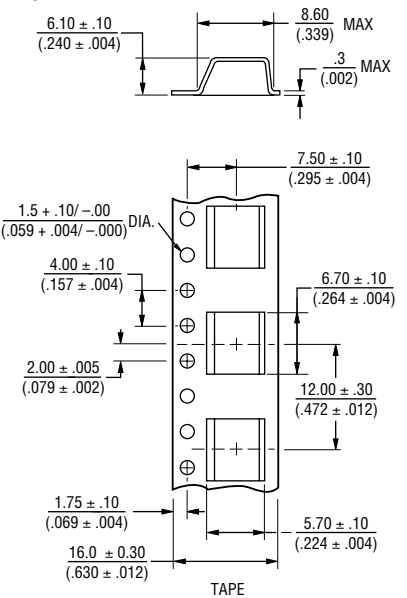
J & G Styles



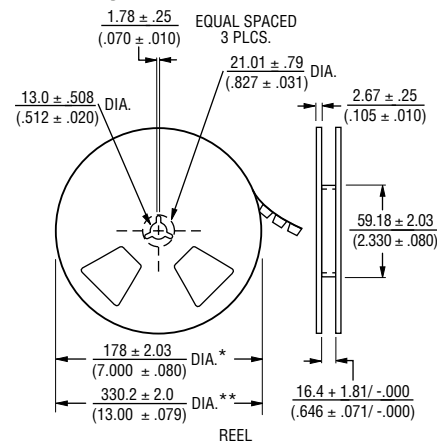
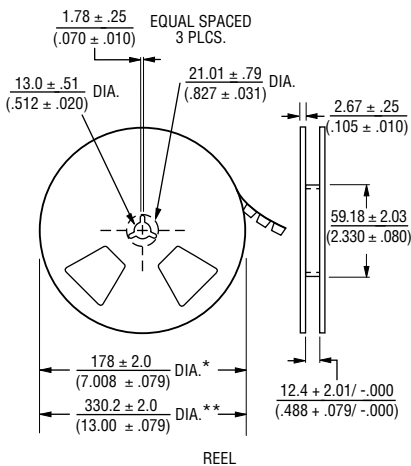
W Style



X Style



W & X Style Reel

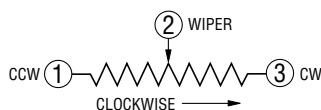


* Embossed Tape Designator 'E'
 ** Embossed Tape Designator 'G'
 (See How To Order chart for further information.)

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.



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

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
500,000	504
1,000,000	105
2,000,000	205

Popular distribution values listed in boldface.
 Special resistances available.