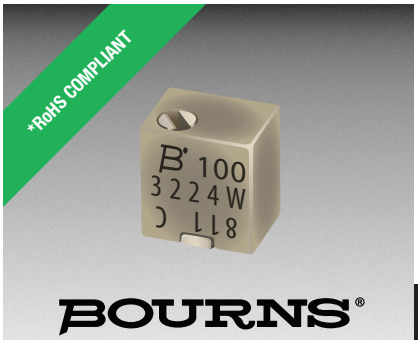


Features

- 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
- 4mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- Low CRV - 1 %
- RoHS compliant* - see processing information on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, click here

3224 – 4 mm SMD Trimpot® Trimming Potentiometer

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Characteristics

Standard Resistance Range... 10 to 2 megohm (see standard resistance table)
Resistance Tolerance ..... ±10 % std.
Absolute Min. Resistance..... 1 % or 2.0 ohms (whichever is greater)
Contact Resistance Variation ..... 1 % or 3 ohms max. (whichever is greater)
Resolution.....Essentially Infinite
Insulation Resistance .....500 VDC 100 megohms min.
Dielectric Strength
Sea Level..... 600 VAC (1 minute)
Adjustment Angle..... 12 turns nom.

Environmental Characteristics

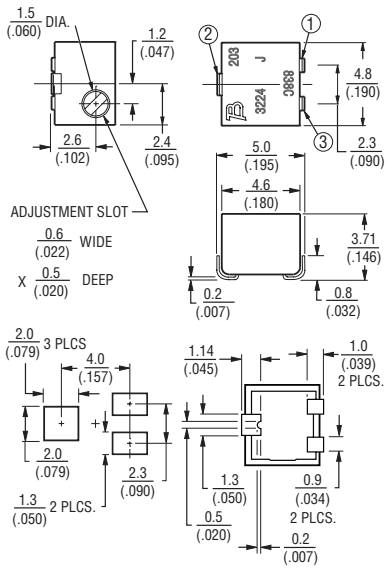
Power Rating (300 volts max.)
85 °C.....0.25 watt
150 °C.....0 watt
Temperature Range.....-65 °C to +150 °C
Temperature Coefficient ..... ±100 ppm/°C
Seal Test..... 85 °C / 60 seconds
Humidity..... MIL-STD 202 Method 106 TRS ±2 %; IR 10 megohms
Vibration .....20 G TRS±1 %; VRS ±1 %
Shock.....100 G TRS ±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 %
Moisture Sensitivity Level.....N/A
ESD Classification..... 2

Physical Characteristics

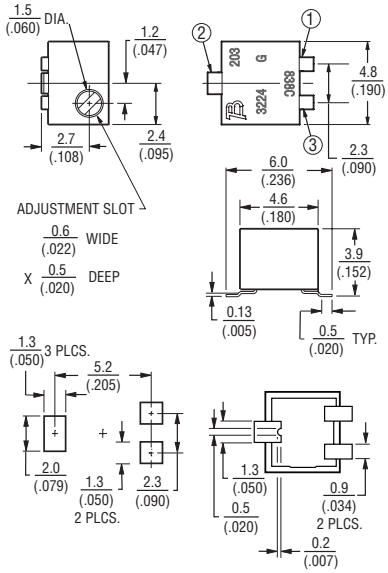
Mechanical Stop.....Wiper idles
Torque.....180 g-cm max.
Weight .....Approximately 0.01 oz.
Marking.....Manufacturer's code, resistance code and date code
Solderability..... Per MIL-STD-202, Method 208
Wiper .....50 % (Actual TR) ±10 %
Flammability UL94V0
Pushover Strength
J, G .....4.4 lbs.
W, X .....1 lb.
Adjustment Tool.....H-91
Storage Condition ..... 40 °C max. / 70 % R.H. max.

Product Dimensions

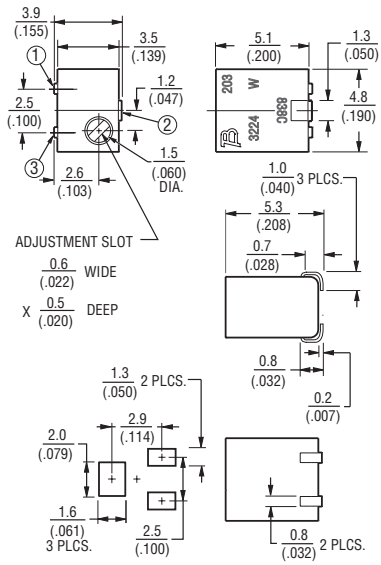
3224J Side Adjust



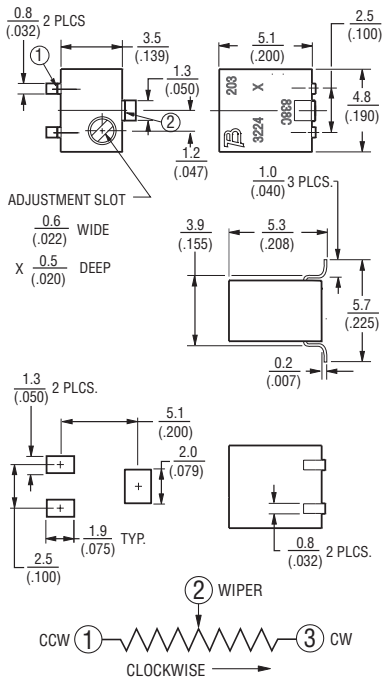
3224G Side Adjust



3224W Top Adjust



3224X Top Adjust



DIMENSIONS: MM (INCHES)

TOLERANCES: ± 0.30 (.012) EXCEPT WHERE NOTED

CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

* 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.

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Additional Features

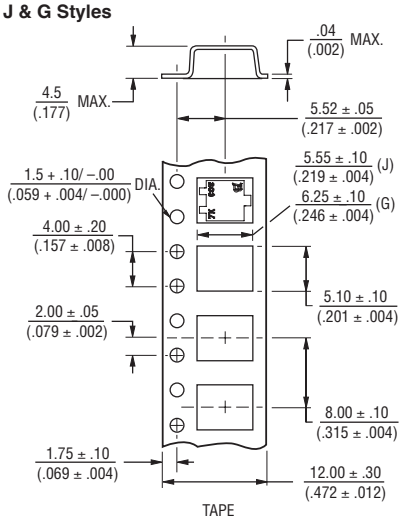
- Top and side adjust styles
- J-hook, and gull-wing

3224 – 4 mm SMD Trimpot® Trimming Potentiometer

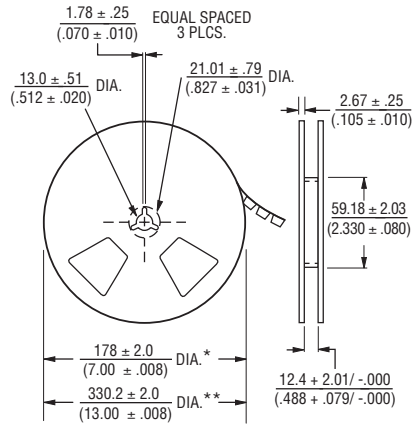
BOURNS®

Packaging Specifications

J & G Styles



TAPE

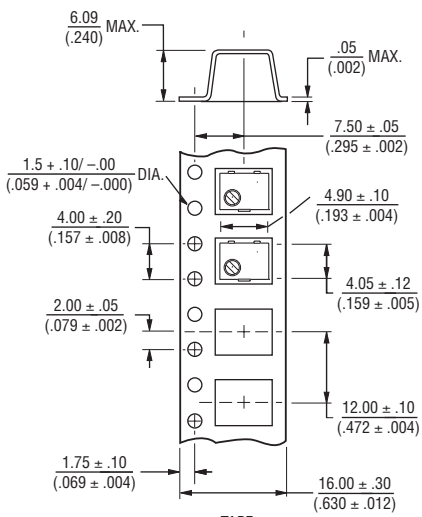


REEL

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

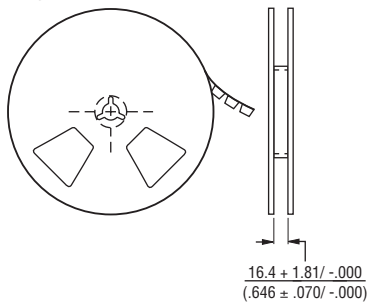
Cover tape peel strength: Meets EIA specification 481.

W Style



TAPE

W & X Style Reel



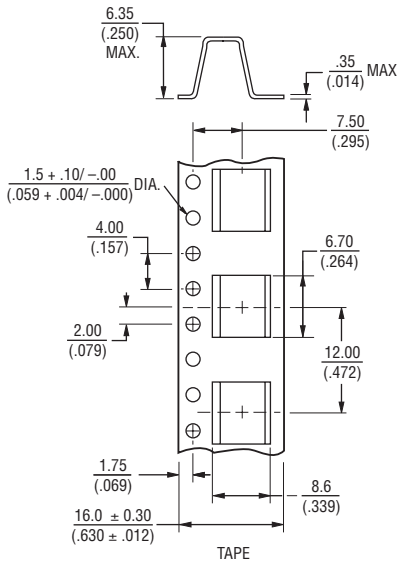
REEL

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

Cover tape peel strength: Meets EIA specification 481.

DIMENSIONS: MM (INCHES)

X Style



TAPE

How To Order

3224 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)
- Blank = 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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