

### **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

#### **Electrical Characteristics**

Standard Resistance Range ... 10 to 2 megohm Resistance Tolerance .....±10 % std. Absolute Minimum Resistance ......1 % or 2.0 ohms (whichever is greater) Contact Resistance Variation ......1 % or 3 ohms max. Resolution ..... Essentially Infinite Insulation Resistance .................................500 vdc. 100 megohms min. Dielectric Strength

**Environmental Characteristics** Power Rating (300 volts max.) 85 °C......0.25 watt TRS ±2 %; IR 10 megohms .....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 Stop	Wiper idles
	180 g-cm max.
	Approximately 0.01 oz.
Marking	Manufacturer's code,
resista	nce code and date code
Solderability	Per MIL-STD-202,
•	Method 208
Wiper	50 % (Actual TR) ±10 %
Flammability	ÚL94V0
Pushover Strength	
J, G	4.4 lbs.
Ŵ, X	1 lb.
	H-91

### **How To Order**

3224 J - 1 - 502	Е
Model —	- 1
Style	
Standard or Modified Product Indicator -1= IR Reflow (standard) +2= Wave Solderable -FW5= .070 " ± .010 " Shaft Extension	
Resistance Code —	

Embossed Tape Designator

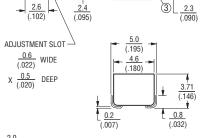
- Embossed Tape Designator

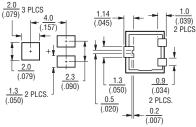
  E = Style J, G: 500 pcs./7 " reel (standard)
  Style W: 250 pcs./7 " reel (standard)
  Style X: 200 pcs./7 " reel (standard)
  G = Style J, G: 1500 pcs./13 " reel (standard)
  Style W: 1000 pcs./13 " reel (standard)
  Style W: 850 pcs./13 " reel (standard)
  Blank = Style J, G: 1500 pcs./13 " reel (FW5)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

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

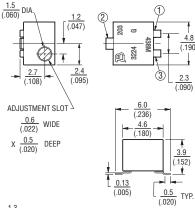
#### **Product Dimensions**

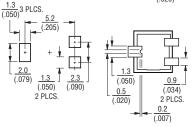
### 3224J Side Adjust $\frac{1.5}{(.060)}$ DIA ADJUSTMENT SLOT (.195) 0.6 4.6 WIDE (.022)(.180)DEEP



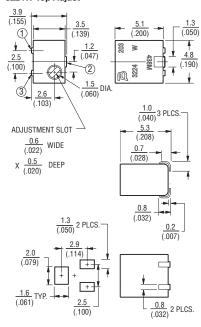


### 3224G Side Adjust

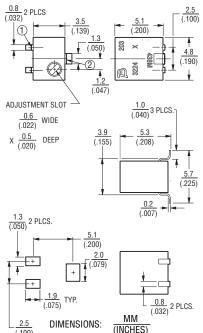




### 3224W Top Adjust



### 3224X Top Adjust



\*RoHS Directive 2002/95/EC Jan 27, 2003 including 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.

Specifications are subject to change without notice.

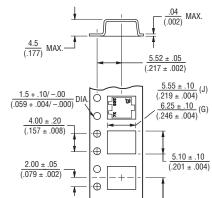
### **Additional Features**

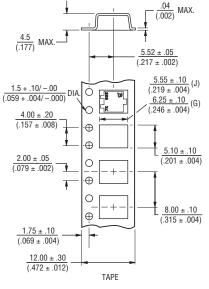
- Top and side adjust styles
- J-hook, and gull-wing

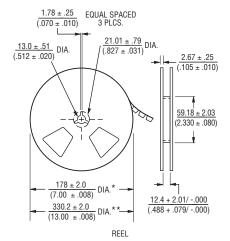
J & G Styles

# 3224 - Packaging Specifications

## BOURNS

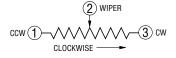


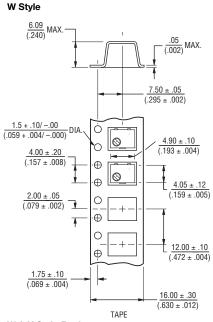




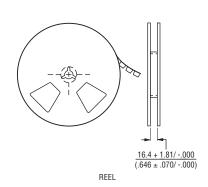
- \* Embossed Tape Designator "E"
- \*\*Embossed Tape Designator "G" (See How To Order chart for further information.)

Cover tape peel strength: Meets EIA specification 481.





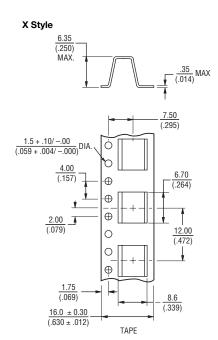
W & X Style Reel



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

Cover tape peel strength: Meets EIA specification 481.

DIME	ISIONS:	MM (INCHES)
TOLERANCES: ±	0.25 (.010)	- EXCEPT WHERE NOTED



### **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.