



Features

- Surface Mount 3 mm Square / Multiturn Cermet / Industrial / Sealed
- Sealed to withstand standard board wash processing
- Pick and place centering design for automated placement compatibility
- Flush adjustment screw
- Meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- Top and side adjust
- RoHS compliant* - see [processing information](#) on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

3223 - 3 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 ohms to 2 megohms
(see standard resistance table)
Resistance Tolerance $\pm 20\%$ std.
Absolute Minimum Resistance 1 % or 3 ohms max.
(whichever is greater)
Contact Resistance Variation 3 % 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 11 turns nom.

Environmental Characteristics

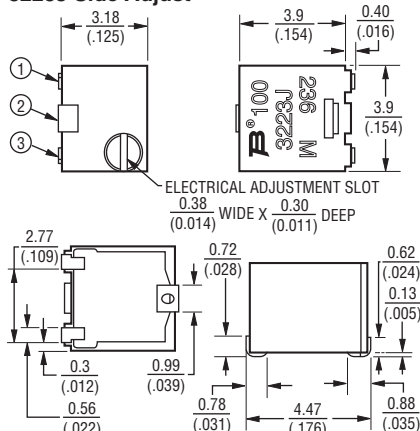
Power Rating (200 volts max.)
70 °C 0.125 watt
150 °C 0 watt
Temperature Range ... -65 °C to +150 °C
Temperature Coefficient ... ± 100 ppm/°C
Seal Test .. 85 °C Fluorinert™/60 seconds
Humidity MIL-STD-202 Method 106
TRS $\pm 3\%$; IR 10 megohms
Vibration 20 G TRS $\pm 1\%$; VRS $\pm 1\%$
Shock 100 G TRS $\pm 1\%$; VRS $\pm 1\%$
Load Life
..... @ 70 °C rated power 1000 hours
CRV 4 ohms or 4 %
(whichever is greater)
Rotational Cycling 200 cycles
CRV 4 ohms or 4 %
(whichever is greater)
Thermal Shock 5 cycles
TRS $\pm 2\%$; VRS $\pm 2\%$

Physical Characteristics

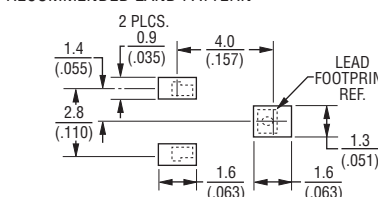
Mechanical Stop Wiper idles
Torque 2.50 oz-in. max
Weight Approximately 0.01 oz.
Marking Manufacturer's code,
resistance code and date code
Solderability Per MIL-STD-202,
Method 208
Wiper 50 % (Actual TR) $\pm 10\%$
Flammability UL94V-0
Adjustment Tool H-92-1

Product Dimensions

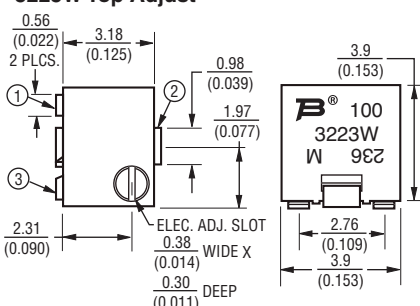
3223J Side Adjust



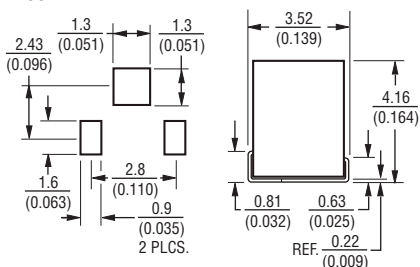
RECOMMENDED LAND PATTERN



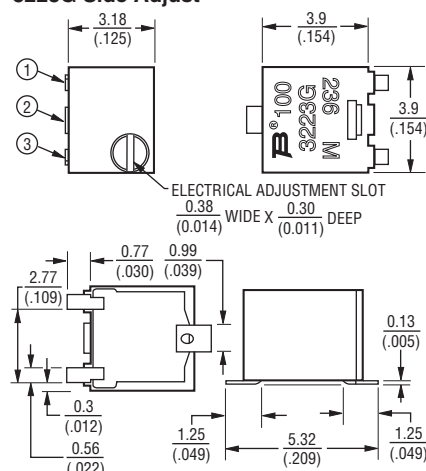
3223W Top Adjust



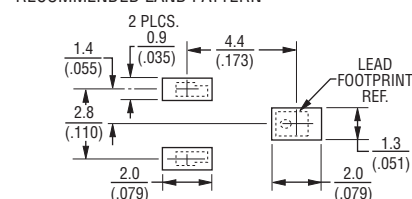
RECOMMENDED LAND PATTERN



3223G Side Adjust

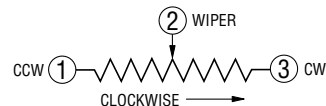


RECOMMENDED LAND PATTERN



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

TOLERANCES: $\frac{0.25}{(.010)}$ EXCEPT WHERE NOTED



How To Order

3223 W - 1 - 502 E

Model _____
Style _____
Standard Product Indicator _____
-1 = IR Reflow (Standard)
Resistance Code _____
Embossed Tape Designator _____
E = 500 pcs./7" Reel (Standard)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

†"Fluorinert" is a registered trademark of 3M Co.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

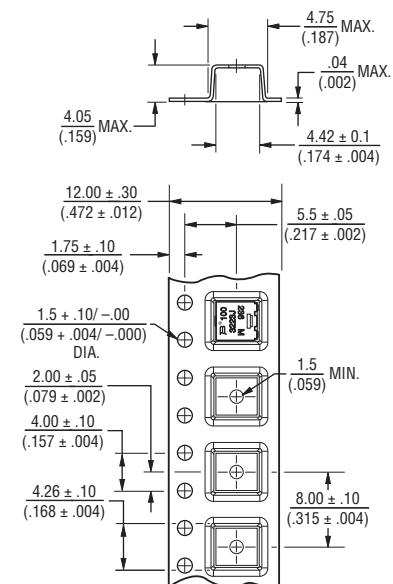
Users should verify actual device performance in their specific applications.

3223 - 3 mm SMD Trimpot® Trimming Potentiometer

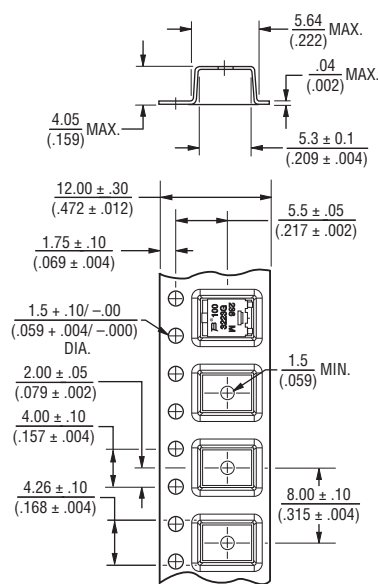
BOURNS®

Packaging Specifications

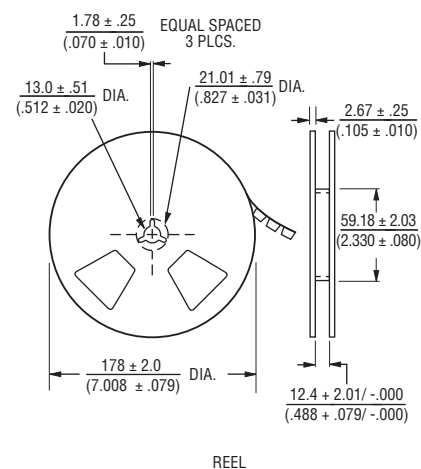
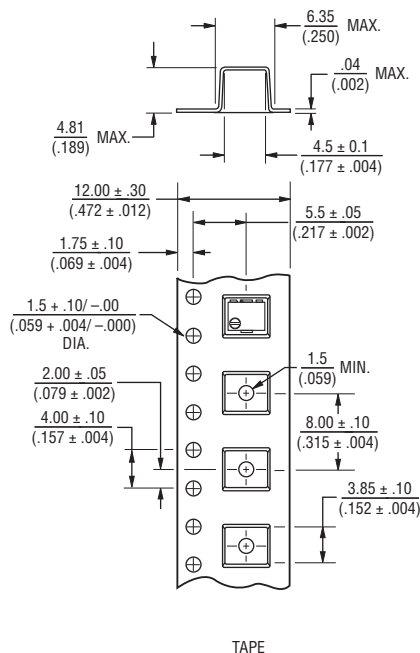
J Style



G Style



W Style



Cover tape peel strength: Meets EIA specification 481.

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

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 values listed in boldface. Consult factory for special resistances.

REV. 08/14

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Mouser Electronics

Authorized Distributor

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Bourns:

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[3223W-1-102E](#) [3223W-1-103E](#) [3223W-1-201](#) [3223W-1-205](#) [3223W-1-204](#) [3223W-1-202](#) [3223W-1-200](#) [3223W-1-](#)
[203](#) [3223W-1-503E](#) [3223W-1-501E](#) [3223W-1-503](#) [3223W-1-102](#) [3223W-1-501](#) [3223W-1-105](#) [3223W-1-100](#)
[3223W-1-101](#) [3223W-1-103](#) [3223W-1-502](#) [3223W-1-104](#) [3223W-1-500](#) [3223W-1-504](#) [3223W-1-202E](#) [3223W-1-](#)
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[204E](#) [3223G-1-205E](#) [3223G-1-204E](#) [3223J-1-200E](#) [3223G-1-501E](#) [3223G-1-201E](#) [3223J-1-504E](#) [3223W-1-205M](#)
[3223J-1-500E](#) [3223J-1-501E](#)