



BOURNS®

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 adjust

3223 - 3 mm SMD Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
.....10 Ω to 2 M Ω
(see standard resistance table)
Resistance Tolerance..... $\pm 20\%$ std.
Absolute Minimum Resistance
...1 % or 3 Ω max. (whichever is greater)
Contact Resistance Variation
...3 % or 3 Ω max. (whichever is greater)
Resolution.....Essentially infinite
Insulation Resistance500 VDC
100 M Ω min.
Dielectric Strength
Sea Level600 VAC (1 minute)
Adjustment Angle.....11 turns nom.

Environmental Characteristics

Power Rating (200 volts max.)
70 $^{\circ}$ C0.125 watt
150 $^{\circ}$ C0 watt
Temperature Range-65 $^{\circ}$ C to +150 $^{\circ}$ C
Temperature Coefficient..... ± 100 ppm/ $^{\circ}$ C
HumidityMIL-STD-202 Method 106
TRS $\pm 3\%$; IR 10 M Ω
Vibration20 G TRS $\pm 1\%$; VRS $\pm 1\%$
Shock100 G TRS $\pm 1\%$; VRS $\pm 1\%$
Load Life
@ 70 $^{\circ}$ C rated power 1000 hours
CRV ...4 Ω or 4 % (whichever is greater)
Rotational Cycling200 cycles
CRV ...4 Ω or 4 % (whichever is greater)
Thermal Shock5 cycles
TRS $\pm 2\%$; VRS $\pm 2\%$

Physical Characteristics

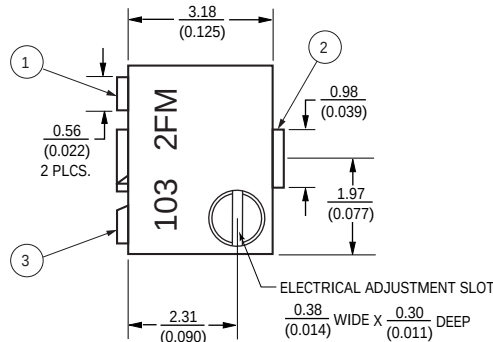
Mechanical Stop.....Wiper idles
Torque.....2.50 oz-in. max
Weight.....Approximately 0.01 oz.
Marking.....Manufacturer's code,
resistance code and date code
SolderabilityPer MIL-STD-202,
Method 208
WiperSet at 50 % nominal
FlammabilityUL94V-0
Adjustment Tool.....H-92

How To Order

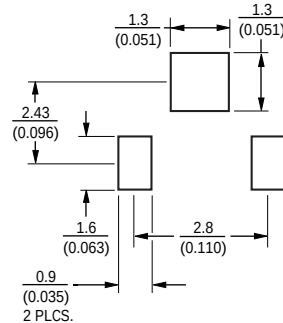
3223 W - 1 - 502 E

Model _____
Style _____
Standard Product Indicator _____
-1 = IR Reflow (Standard)
Resistance Code _____
Packaging Options _____
E = 500 pcs./7 " Reel (Standard)
_ = 50 pcs./tube (No suffix required)

Product Dimensions



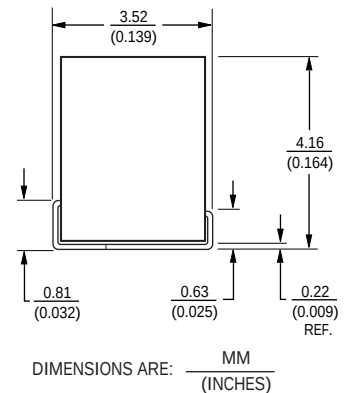
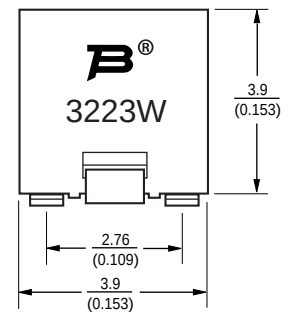
Recommended Land Pattern



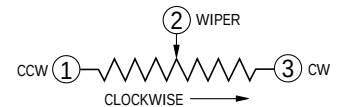
Standard Resistance Table

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.



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



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