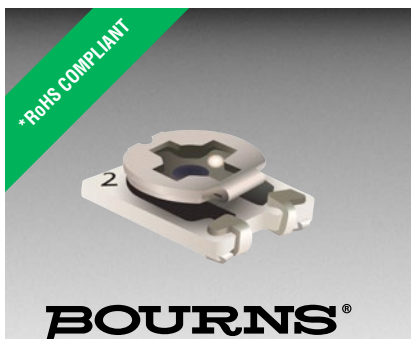




Features

- Single-turn cermet/open-frame
- 2 mm size meets EIA/EIAJ standard trimmer footprint
- RoHS compliant* - see [processing information](#) on RoHS compliant surface mount trimmers
- For trimmer applications/processing guidelines, [click here](#)

TC42 - 2 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
 100 ohms to 1 megohm
 (see standard resistance table)
 Resistance Tolerance $\pm 25\%$ std.
 Absolute Minimum Resistance
 $\leq 1\text{K Ohms}$ 20 ohms max.
 $> 1\text{K Ohms}$ 2 % max. of TR
 Contact Resistance Variation 5 % max.
 Resolution Essentially infinite
 Adjustment Angle $240^\circ \pm 20^\circ$

Environmental Characteristics

Power Rating (50 VDC max.)
 70°C 0.1 watt
 Temperature Range -40°C to $+100^\circ\text{C}$
 Temperature Coefficient $\pm 250\text{ ppm}/^\circ\text{C}$
 Humidity 95 % RH
 TRS Max $\pm 5\%$
 Load Life @ 70°C rated power 1000 hrs.
 TRS $\pm 5\%$
 Rotational Cycling 20 cycles, TRS $\pm 10\%$

Physical Characteristics

Torque 0.49 - 7.84 mN-m max.
 Mechanical Angle Continuous rotation
 Marking Part marking code
 Standard Packaging 3000 pcs./7" reel
 Adjustment Tool H-90

Aqueous cleaning not recommended.

How To Order

TC42 X - 2 - 103 E

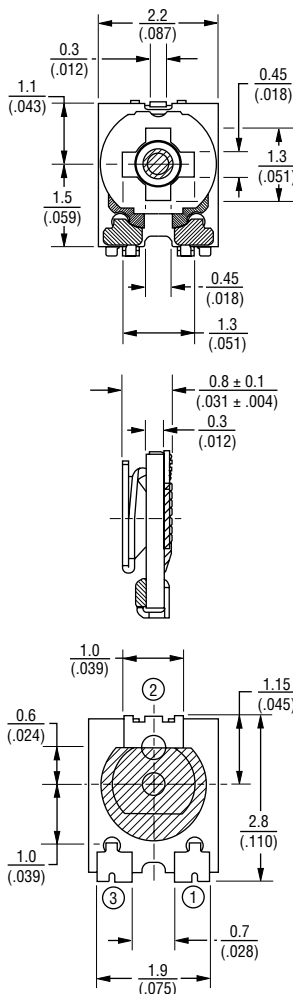
Model _____
 Style _____
 Standard Product Indicator
 -2 = Cross Slot Rotor
 Resistance Code _____
 Embossed Tape Designator
 E = 3000 pcs./7" Reel (Standard)
 Tape and reel material meets Antistatic ANSI/
 ESD 5541-2003 packaging standards.

Standard Resistance Table

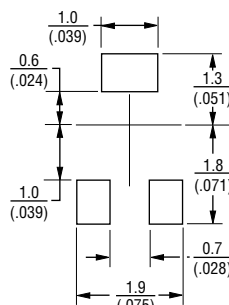
Resistance (Ohms)	Resistance Code
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Popular distribution values listed in boldface.

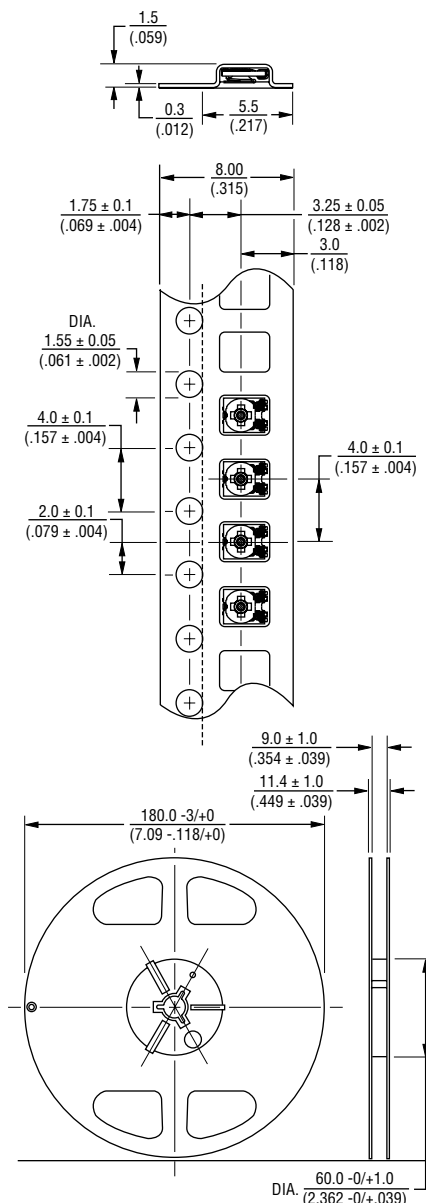
Product Dimensions



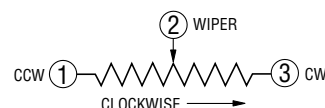
Recommended Land Pattern



Packaging Specifications



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



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

"Trimpot" is a registered trademark of Bourns, Inc.

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.

REV. 11/16

Mouser Electronics

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