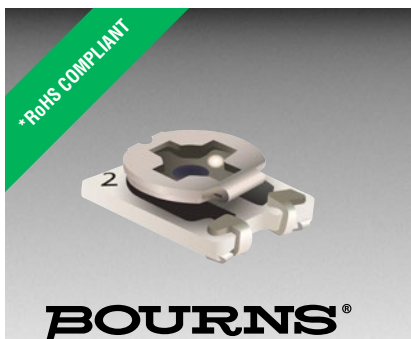




## Features

- 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.)  
 $70^\circ\text{C}$  ..... 0.1 watt  
 Temperature Range .....  $-40^\circ\text{C}$  to  $+100^\circ\text{C}$   
 Temperature Coefficient .....  $\pm 250\text{ ppm}/^\circ\text{C}$   
 Humidity ..... 95 % RH  
 TRS Max .....  $\pm 5\%$   
 Load Life ..... @  $70^\circ\text{C}$  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

Aqueous cleaning not recommended.

### How To Order

**TC42 X - 2 - 103 E**

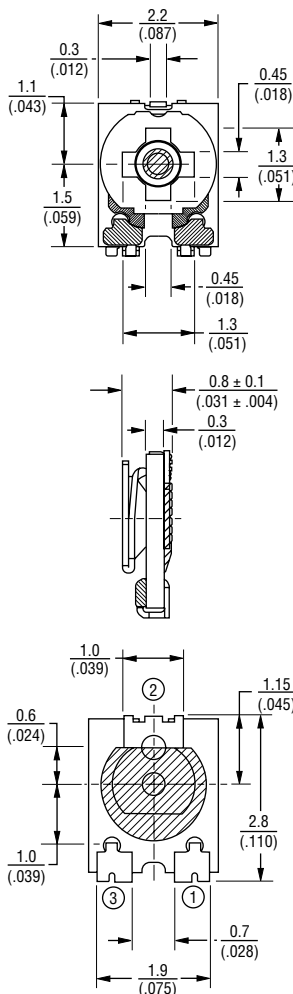
Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Standard Product Indicator \_\_\_\_\_  
 -2 = Cross Slot Rotor  
 Resistance Code \_\_\_\_\_  
 Embossed Tape Designator \_\_\_\_\_  
 E = 3000 pcs./7" Reel (Standard)  
 Tape and reel material meets Antistatic ANSI/  
 ESD 5541-2003 packaging standards.

### Standard Resistance Table

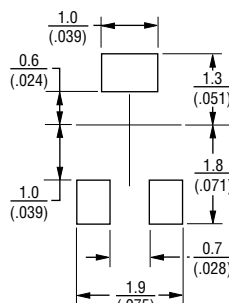
| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| <b>100</b>        | <b>101</b>      |
| <b>200</b>        | <b>201</b>      |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      |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

Popular distribution values listed in boldface.

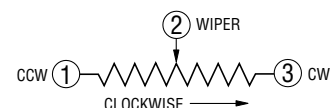
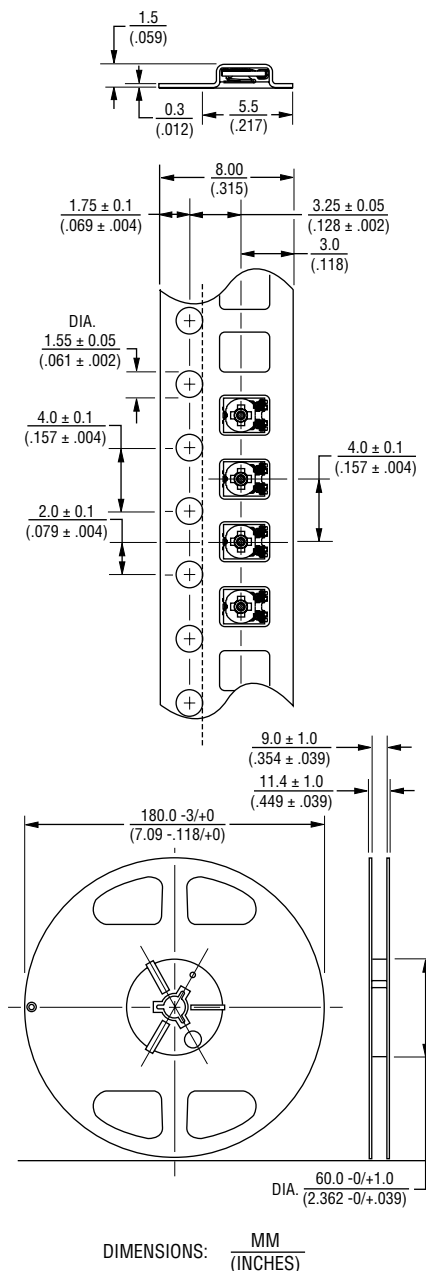
### Product Dimensions



### Recommended Land Pattern



### Packaging Specifications



\*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.