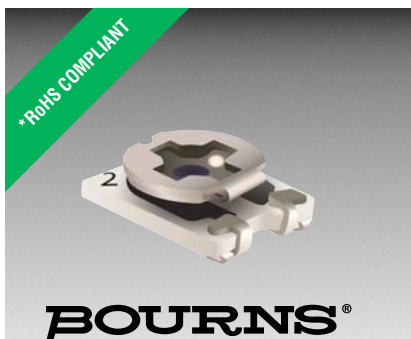




## Features

- Single-turn cermet/open-frame
- Rotor design compatible with pick and place and automatic adjustment equipment
- 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  
≤ 1K Ohms ..... 20 ohms max.  
> 1K 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 .....  $-40^\circ\text{C}$  to  $+100^\circ\text{C}$   
Temperature Coefficient .....  $\pm 250$  ppm/°C  
Humidity ..... 95 % RH  
TRS Max. ....  $\pm 5\%$   
Load Life  
..... @ 70 °C rated power 1000 hours  
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**

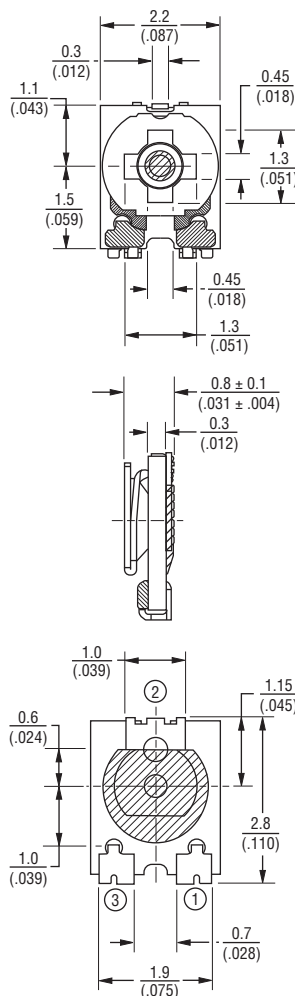
Model \_\_\_\_\_  
Style \_\_\_\_\_  
Standard Product Indicator \_\_\_\_\_  
-2 = Cross Slot Rotor  
Resistance Code \_\_\_\_\_  
Embossed Tape Designator \_\_\_\_\_  
E = 3000 pcs./7" Reel (Standard)

### Standard Resistance Table

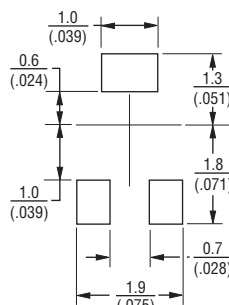
| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| <b>100</b>        | <b>101</b>      |
| <b>200</b>        | <b>201</b>      |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      | <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.

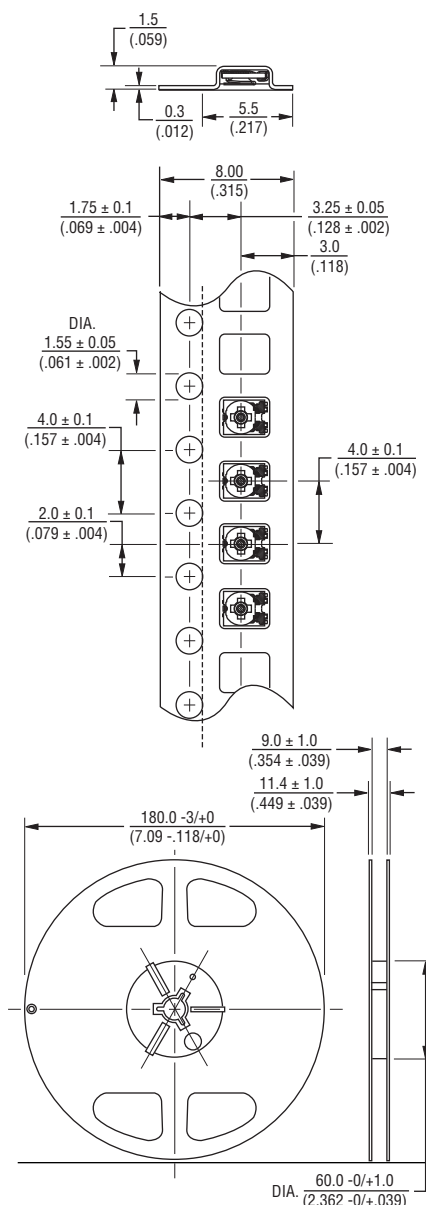
### Product Dimensions



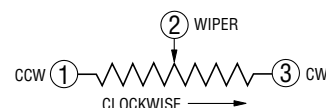
### Recommended Land Pattern



### Packaging Specifications



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. 04/14

# Mouser Electronics

Authorized Distributor

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## Bourns:

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[TC42X-2-503E](#) [TC42X-2-201E](#) [TC42X-2-101E](#) [TC42X-2-204E](#) [TC42X-2-104E](#) [TC42X-2-504E](#) [TC42X-2-333E](#)  
[TC42X-2-303E](#)