

## 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 lead free 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 ..... ±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 ° ±20 °

### Environmental Characteristics

Power Rating (50 VDC max.)  
 70 °C ..... 0.1 watt  
 Temperature Range ... -40 °C to +100 °C  
 Temperature Coefficient ... ±250 ppm/°C  
 Humidity ..... 95 % RH  
 TRS Max. .... ±5 %  
 Load Life  
 .....@70 °C rated power 1000 hours  
 TRS ±5 %  
 Rotational Cycling ..... 20 cycles  
 TRS ±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.

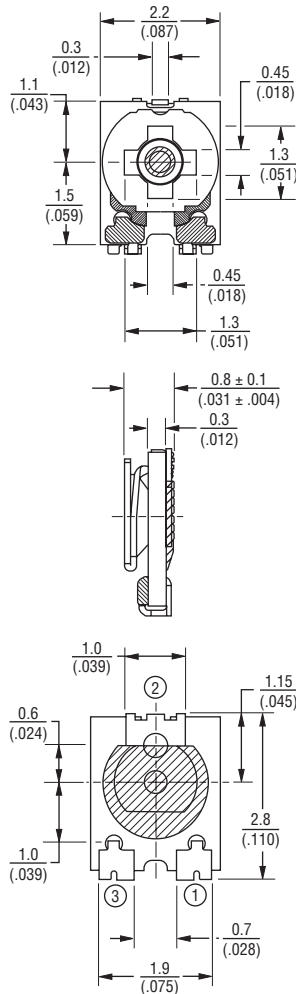
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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

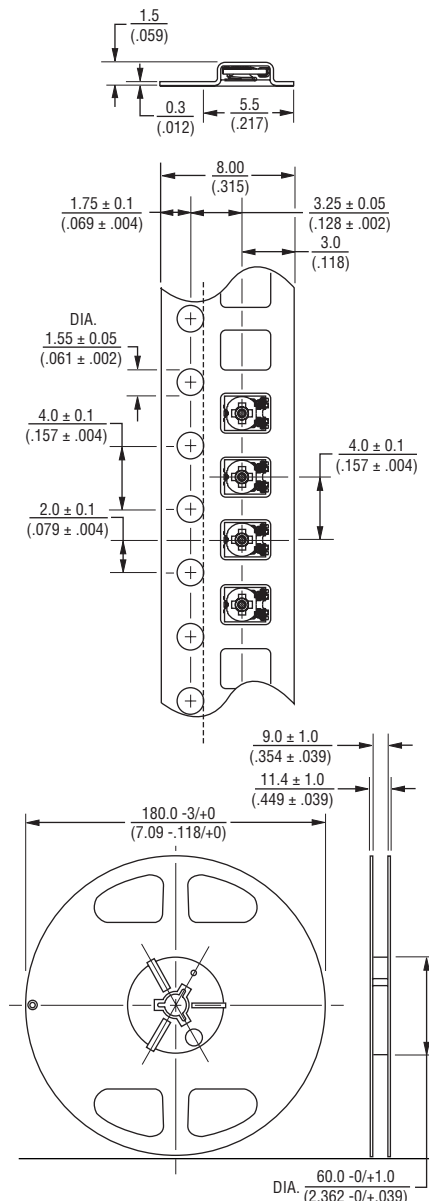
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

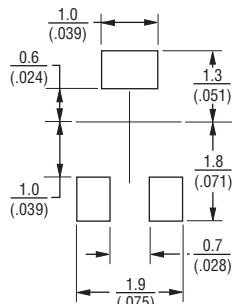
### Product Dimensions



### Packaging Specifications



### Recommended Land Pattern



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

