

## 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 .....  $\pm 25\%$  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 °C to +100 °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.

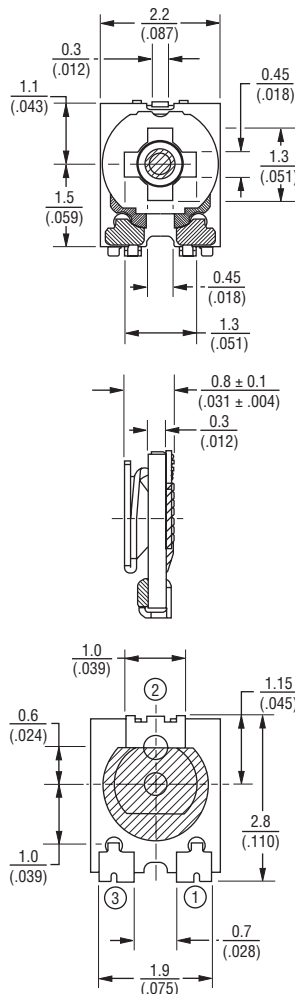
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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

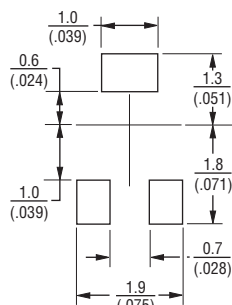
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

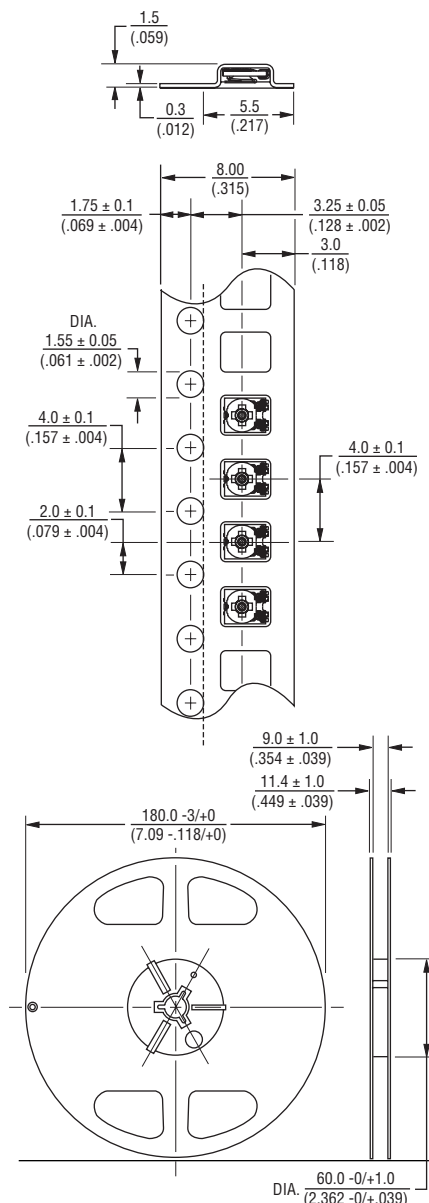
### Product Dimensions



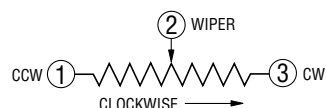
### Recommended Land Pattern



### Packaging Specifications



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



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