

## Features

- Recommended for reflow processing
- Rotor design compatible with pick and place and automatic adjustment equipment
- Supplied in 8 mm embossed tape, compatible with automatic assembly equipment
- Carbon element



Model TC73 is obsolete and not recommended for new designs. Model TC33 is preferred.

- RoHS compliant\* - see processing information on lead free surface mount trimmers

## TC73 - Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 500 to 1 megohm  
 (see standard resistance table)  
 Resistance Tolerance .....  $\pm 30\%$  std.  
 Absolute Minimum Resistance  
 $\leq 1K$  Ohms ..... 20 ohms max.  
 $> 1K$  Ohms ..... 2 % max. of TR  
 Contact Resistance Variation  
 ..... 5 % max.  
 Resolution ..... Infinite  
 Adjustment Angle .....  $260^\circ \pm 20^\circ (-2)$

### Environmental Characteristics

Power Rating (50 VDC max.)  
 50 °C ..... 0.05 watt  
 Temperature Range ..... -25 °C to +85 °C  
 Temperature Coefficient ...  $\pm 250$  ppm/°C  
 Humidity ..... 95 %RH  
 500 hours  
 TRS max. .... +15 % to -2 %  
 Load Life  
 .....@ 50 °C rated power 500 hours  
 TRS  $\pm 5\%$   
 Rotational Cycling ..... 20 turns  
 TRS  $\pm 20\%$

### Physical Characteristics

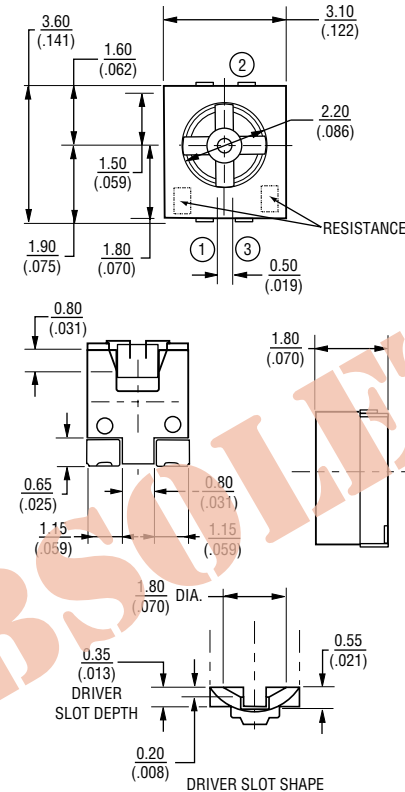
Torque ..... 10-150 g-cm max.  
 Mechanical Angle  
 -1 .....  $260^\circ \pm 20^\circ$   
 -2 ..... Continuous  
 Electrical Angle  
 Both .....  $260^\circ$  nom.  
 Marking ..... Part marking code  
 Standard Packaging  
 ..... 2000 pcs./7 " reel

### Soldering Process

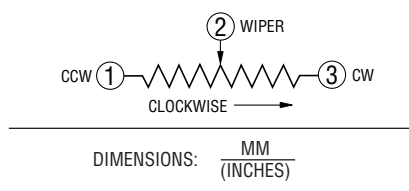
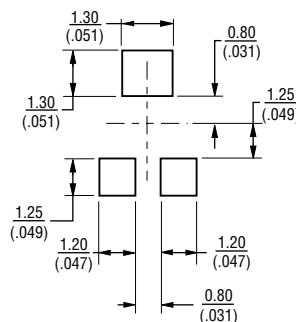
Hand Soldering... Soldering Iron of 20 W or less controlled at 280 °C for about 3 sec. while applying solder  
 Reflow Soldering ..... Peak temperature or reflow oven should be set to 240 °C max.

### Product Dimensions

TC73X/W-2



SUGGESTED PCB LAYOUT



### How To Order

TC73 X - 1 - 103 E

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Orientation of Parts In Tape:  
 Style X: Terminals Away From Sprocket Holes  
 Style W: Terminals in direction to sprocket holes (preferred)  
 Standard or Modified Product Indicator \_\_\_\_\_  
 1 = Mechanical rotation stop (preferred)  
 2 = Continuous  
 Resistance Code \_\_\_\_\_  
 Embossed Tape Designator \_\_\_\_\_  
 E = 2000 pcs. per reel, 8 mm tape  
 Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Part Marking Code | Resistance Code |
|-------------------|-------------------|-----------------|
| 500               | 52                | 501             |
| <b>1,000</b>      | <b>13</b>         | <b>102</b>      |
| <b>2,000</b>      | <b>23</b>         | <b>202</b>      |
| <b>5,000</b>      | <b>53</b>         | <b>502</b>      |
| <b>10,000</b>     | <b>14</b>         | <b>103</b>      |
| <b>20,000</b>     | <b>24</b>         | <b>203</b>      |
| 50,000            | 54                | 503             |
| 100,000           | 15                | 104             |
| 200,000           | 25                | 204             |
| 500,000           | 55                | 504             |
| 1,000,000         | 16                | 105             |

Popular distribution resistance values listed in boldface. Special resistances available.

REV. 03/10

\*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.