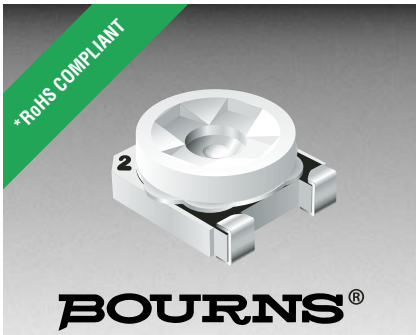




## Features

- High temperature plastic rotor
- 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



Model TC03 is currently available, although not recommended for new designs. Models **TC33** & **TC43** are preferred.

- Cermet element
- RoHS compliant\* - see [processing information](#) on lead free surface mount trimmers

## TC03 - Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range .....100 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.....Infinite  
Adjustment Angle.....270 ° ±20 °

### Environmental Characteristics

Power Rating (50 VDC max.)  
70 °C .....0.10 watt  
Temperature Range.....-40 °C to +85 °C  
Temperature Coefficient .....±250 ppm/°C  
Humidity .....95 %RH  
500 hours  
TRS max. ....±5 %  
Load Life  
.....@ 70 °C rated power 500 hours  
TRS ±5 %  
Rotational Cycling.....20 turns  
TRS ±15 %

### Physical Characteristics

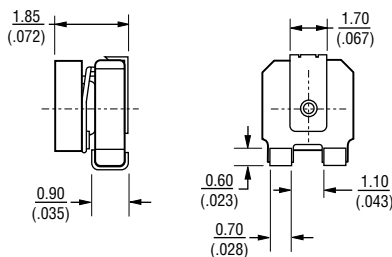
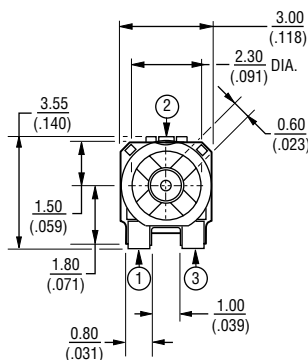
Torque.....20-200 g-cm max.  
Mechanical Angle .....Continuous  
Marking.....Part marking code  
Standard Packaging  
.....2000 pcs./7 " reel  
Adjustment Tool .....H-90

### How To Order

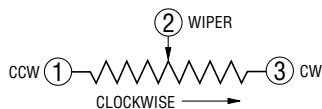
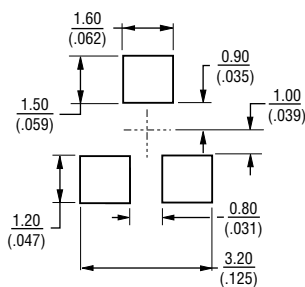
**TC03 X - 2 - 103 E**

Model \_\_\_\_\_  
Style \_\_\_\_\_  
Orientation of Parts \_\_\_\_\_  
In Tape:  
Style X: Terminals Away  
From Sprocket  
Holes  
Standard or Modified  
Product Indicator \_\_\_\_\_  
-2 = Cross Slot Rotor (Std. Product)  
Resistance Code \_\_\_\_\_  
Embossed Tape Designator \_\_\_\_\_  
Consult factory for other available options.

**TC03X-2**  
**3mm Open Frame**  
**for Reflow Soldering**  
**3-Terminal**



**SUGGESTED PWB LAYOUT**



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

### Standard Resistance Table

| Resistance (Ohms) | Part Marking Code | Resistance Code |
|-------------------|-------------------|-----------------|
| 100               | 12                | 101             |
| 200               | 22                | 201             |
| 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Bourns:

[TC03X-2-204E](#) [TC03X-2-302E](#) [TC03X-2-202E](#) [TC03X-2-203E](#) [TC03X-2-201E](#) [TC03X-2-502E](#) [TC03X-2-503E](#)  
[TC03X-2-501E](#) [TC03X-2-504E](#) [TC03X-2-101E](#) [TC03X-2-105E](#) [TC03X-2-103E](#) [TC03X-2-104E](#) [TC03X-2-102E](#)