**Features**
- Single-turn cermet/open-frame
- 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

**Electrical Characteristics**

**Standard Resistance Range**

<table>
<thead>
<tr>
<th>Resistance Range</th>
<th>Standard Resistance Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ohms to 1 megohm</td>
<td>(see standard resistance table)</td>
</tr>
</tbody>
</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

**Torque**

0.49 - 7.84 mN-m max.

**Load Life**

@70 °C rated power 1000 hrs.

**Rotational Cycling**

20 cycles, TRS ±10% Moisture Sensitivity Level N/A

**ESD Classification (HBM)**

N/A

**Temperature Coefficient**

±25% std.

**Temperature Range**

-40 °C to +100 °C

**Power Rating**

0.1 watt

**Mechanical Angle**

3 CW

**Torque**

> 1K Ohms

**Physical Characteristics**

**Torque**

0.49 - 7.84 mN-m max.

**Mechanical Angle**

Continuous rotation

**Marking**

Part marking code

**Recommended Adjustment Tool**

- 1.5 mm (.060 in.) slot

**Cautions**

- Aqueous cleaning not recommended

- Flow soldering not recommended; use reflow soldering

**Model TC42** is not designed to be used with flux - use care with flux when soldering

**Recommended Adjustment Angle**

3 CW

**Continuous rotation**

**Contact Resistance Variation**

> 1K Ohms

**Absolute Minimum Resistance**

95% RH

**Resistance Tolerance**

±25% std.

**Recommended Land Pattern**

**Dimensions:**

<table>
<thead>
<tr>
<th>MM</th>
<th>INCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.039</td>
</tr>
<tr>
<td>2</td>
<td>0.079</td>
</tr>
<tr>
<td>3</td>
<td>0.118</td>
</tr>
</tbody>
</table>

**TOLERANCES:** ≥ 0.3 (0.01) EXCEPT WHERE NOTED

**CLOCKWISE**


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TC42 - 2 mm SMD Trimpot® Trimming Potentiometer

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)

Tape and reel material meets Antistatic ANSI/ESD 5541-2003 packaging standards.

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance Code</th>
<th>Resistance (Ohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>100</td>
</tr>
<tr>
<td>201</td>
<td>200</td>
</tr>
<tr>
<td>501</td>
<td>1,000</td>
</tr>
<tr>
<td>102</td>
<td>2,000</td>
</tr>
<tr>
<td>202</td>
<td>5,000</td>
</tr>
<tr>
<td>502</td>
<td>10,000</td>
</tr>
<tr>
<td>103</td>
<td>20,000</td>
</tr>
<tr>
<td>203</td>
<td>50,000</td>
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<tr>
<td>503</td>
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<tr>
<td>104</td>
<td>200,000</td>
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<tr>
<td>204</td>
<td>500,000</td>
</tr>
<tr>
<td>504</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>

Popular distribution values listed in boldface.

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