

Features

- Single-turn cermet/open-frame
- 2 mm size meets EIA/EIAJ standard trimmer footprint
- RoHS compliant*
- For trimmer applications/processing guidelines, <u>click here</u>

TC42 - 2 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Environmental Characteristics

Power Rating (50 VDC max.)
70 °C 0.1 watt
Temperature Range40 °C to +100 °C
Temperature Coefficient ±250 ppm/°C
Humidity +40 °C ±2 °C, 90-95 % RH
TRS Max±5 %
Load Life @70 °C rated power 1000 hrs.
TRS ±5 %
Rotational Cycling20 cycles, TRS ±10 %
Moisture Sensitivity Level N/A
ESD Classification (HBM)2

Physical Characteristics

Torque0.4	49 - 7.84 mN-m max.
Mechanical Angle	Continuous rotation
Marking	Part marking code
Standard Packaging	
Adjustment Tool	See note ⁽¹⁾
Pushing Static Force .	<<4.9 N

⁽¹⁾ Use an adjustment tool with the following recommended measurements:

1.2 mm (.047 in.) blade slot

• 0.2 mm (.008 in.) slot width

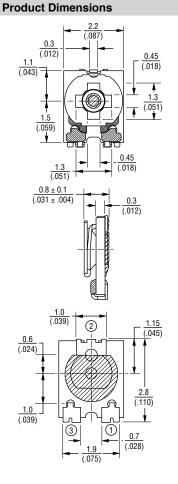
The recommended adjustment tool size is not available from Bourns. Please contact a Bourns representative for further information.

Cautions

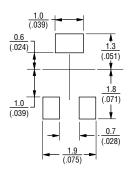
- · Aqueous cleaning not recommended
- Flow soldering not recommended; use reflow soldering
- Model TC42 is not designed to be used with flux - use care with flux when soldering
- It is not recommended to adjust the Model TC42X-2 past the effective rotary angle.
- If an excessive force is applied to the sliding part (the operating shaft) when adjusting the resistance value, the sliding part may be deformed or broken.



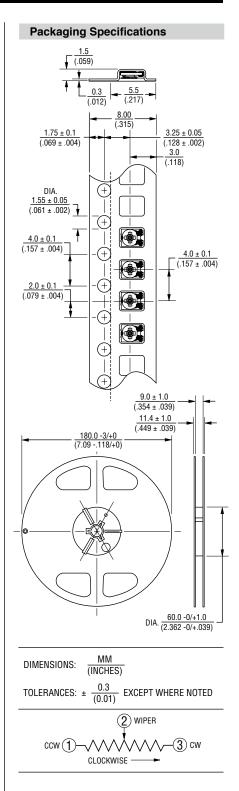
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov



Recommended Land Pattern



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*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

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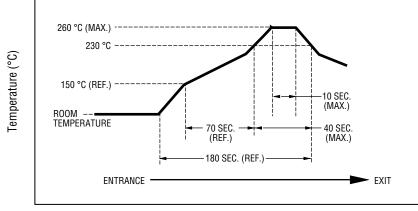
Tape and reel material meets Antistatic ANSI/ ESD 5541-2003 packaging standards.

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Standard Resistance Table Resistance (Ohms) Resistance Code 100 101 200 201 500 501 1,000 102 2,000 202 5,000 502 10,000 103 20,000 203 50,000 503 100,000 104 200,000 204 500,000 504 1,000,000 105

Popular distribution values listed in boldface.

Recommended Reflow Solder Profile



Time (Seconds)

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