

Electrical Characteristics

Standard Resistance Range 100 ohms to 1 megohm (see standard resistance table) Absolute Minimum Resistance

≤ 1 K Ohms 20 ohms max. >1 K Ohms 2 % max. of TR Contact Resistance Variation.... 5 % max. Resolution..... Essentially infinite Adjustment Angle..... 270 ° ± 20 °

Environmental Characteristics

Power Rating (50 VDC max.) 70 °C 0.15 watt Temperature Range....-40 °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 hours TRS ±5 % **Rotational Cycling**

......20 cycles, TRS ±10 %

Physical Characteristics

Torque 0.98	8-11.76 mN-m max.
Mechanical Angle	
-	for Model TC33X-1
Marking	Part marking code
Standard Packaging	2500 pcs./7 " reel
Adjustment Tool	See note ⁽¹⁾
Pushing Static Force	

⁽¹⁾ Use an adjustment tool with the following recommended measurements: 1.7 mm (.067 in.) cross slot 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 TC33 is not designed to be used with flux - use care with flux when soldering
- · It is not recommended to adjust the Model TC33X-1 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**

Features

- Recommended for reflow soldering
- Rotor design compatible with pick and place and automatic adjustment equipment
- 3 mm size meets EIA/EIAJ standard trimmer footprint
- RoHS compliant*

TC33 - 3 mm SMD Trimpot[®] Trimming Potentiometer

TC33X-2

3.0 (.118)

(.079

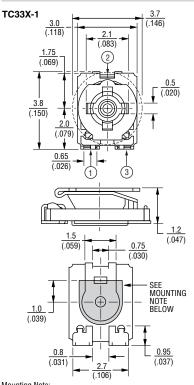
1.75

(.069)

3.8

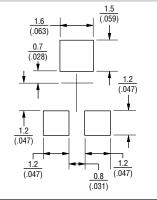
(.150)

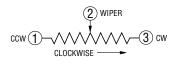
Product Dimensions



Mounting Note: The gray area can be used to apply cement to hold the unit in place during board processing, if required

Recommended Land Pattern



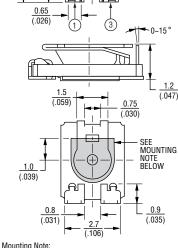




3.6

0.5

(.020)

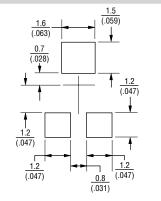


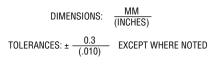
.083

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The gray area can be used to apply cement to hold the unit in place during board processing, if required

Recommended Land Pattern





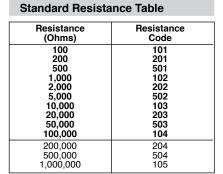
*RoHS Directive 2015/863, Mar. 31, 2015 and Annex

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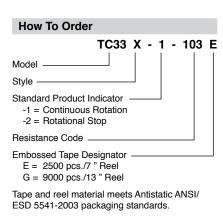
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TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

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Popular distribution resistance values listed in boldface.



Recommended Storage Conditions

Temperature	+5 °C to +35 °C
Humidity	45 % to 85 % RH

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Asia-Pacific: Tel: +886-2 2562-4117 Email: asiacus@bourns.com Europe: Tel: +36 88 885 877 Email: eurocus@bourns.com

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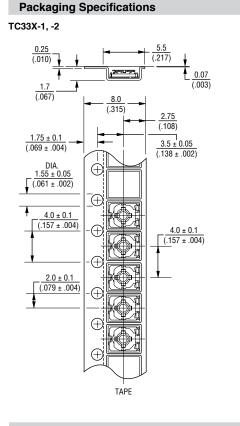
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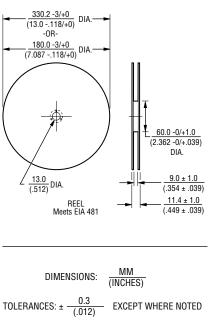
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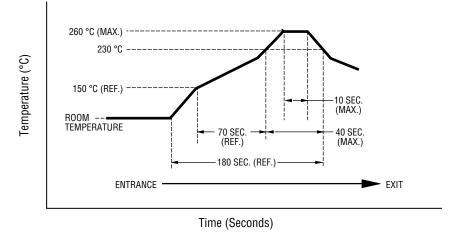
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Recommended Reflow Solder Profile



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