

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*

■ For trimmer applications/processing guidelines, click here

TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Adjustment Angle......270 ° ± 20 °

Environmental Characteristics

Power Rating (50 VDC max.)

...... @ 70 °C rated power 1000 hours TRS ± 5 %

Rotational Cycling

.....20 cycles, TRS ±10 %

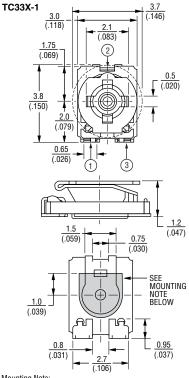
Physical Characteristics

(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

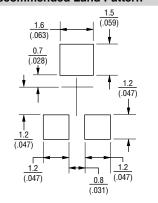
- · Aqueous cleaning not recommended
- Flow soldering not recommended; use reflow soldering
- Model TC33 is not designed to be used with flux - use care with flux when soldering
- It is not recommended to adjust the Model TC33X-1 past the effective rotary angle.
- If an excessive force is applied to the sliding part (the operating shaft) when adjusting the resistance value, the sliding part may be deformed or broken.

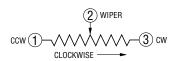
Product Dimensions

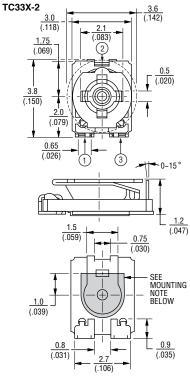


Mounting Note: The gray area can be used to apply cement to hold the unit in place during board processing, if required.

Recommended Land Pattern



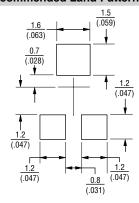




Mounting Note:

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

Recommended Land Pattern



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

TOLERANCES: $\pm \frac{0.3}{(.010)}$ EXCEPT WHERE NOTED

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Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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

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

TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

60.0 -0/+1.0

(2.362 - 0/+.039)

DIA

 9.0 ± 1.0

(.354 ± .039)

11.4 ± 1.0

(.449 ± .039)

MM

(INCHES)

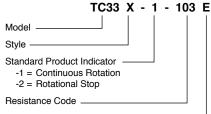
EXCEPT WHERE NOTED

Standard Resistance Table

Resistance	Resistance
(Ohms)	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
200,000 200,000 500,000 1,000,000	204 504 105

Popular distribution resistance values listed in boldface.

How To Order



Embossed Tape Designator

E = 2500 pcs./7 " Reel G = 9000 pcs./13 " Reel

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

Recommended Storage Conditions

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

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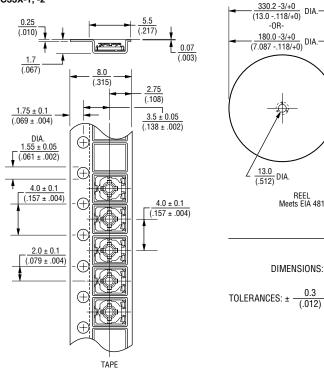
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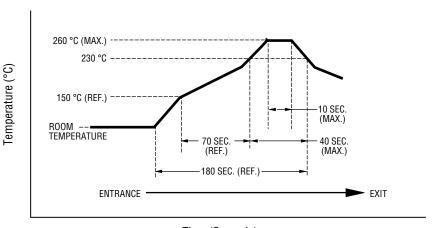
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Packaging Specifications





Recommended Reflow Solder Profile



Time (Seconds)

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