

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

Additional Information

Click these links for more information:



Electrical Characteristics

Environmental Characteristics

J ()
70 °C 0.15 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 hours
TRS ±5 %
Rotational Cycling

Physical Characteristics

Torque0.9	8-11.76 mN-m max.
Mechanical Angle	Continuous rotation
	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.



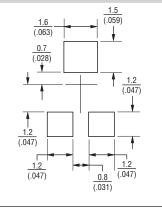
Product Dimensions

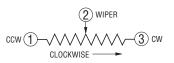
TC33X-1 3.0 146) $\frac{2.1}{(.083)}$ 1.75 (2) (.069) (020) $\frac{3.8}{(.150)}$ (.079 0.65 (.026)0 \mathbb{N}^{2} 1.5(.047) (.059) 0.75 (.030) SEE MOUNTING NOTE BEI OW $\frac{1.0}{(.039)}$ าด 0.95 0.8 (.031) (.037) 106

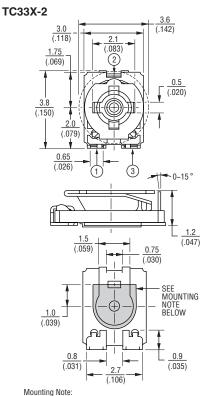
Mounting Note:

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

Recommended Land Pattern





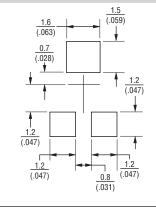


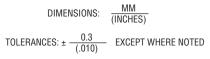
For trimmer applications/processing

guidelines, click here

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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TC33 – 3 mm SMD Trimpot® Trimming Potentiometer

BOURN

RFFI

Meets EIA 481

DIMENSIONS:

0.3 (.012)

60.0 -0/+1.0

(2.362 -0/+.039)

DIA.

9.0 ± 1.0

 $(.354 \pm .039)$

11.4 ± 1.0

(.449 ± .039)

MM

(INCHES)

EXCEPT WHERE NOTED

Cautions

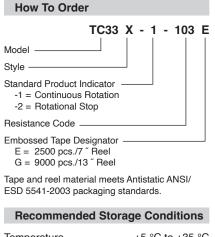
use reflow soldering

- · Aqueous cleaning not recommended
- Flow soldering not recommended;
- 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.

Standard Resistance Table

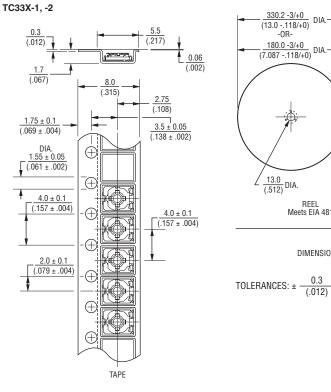
Resistance	Resistance
(Ohms)	Code
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Popular distribution resistance values listed in boldface.

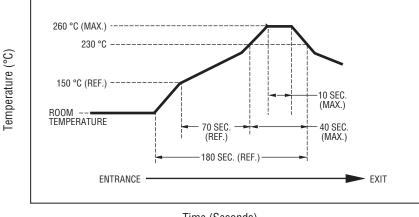




Packaging Specifications







Time (Seconds)

REV. 08/19

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Users should verify actual device performance in their specific applications.

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