

# 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, <u>click here</u>
- TC33 3 mm SMD Trimpot® Trimming Potentiometer

# **Electrical Characteristics**

# **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

### Physical Characteristics

Torque 0.98	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 <sup>(1)</sup>
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.

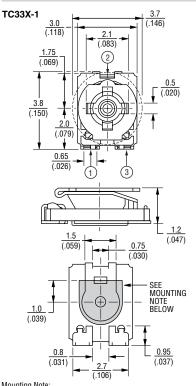
## Cautions

· 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.

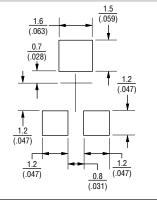


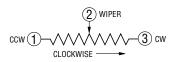
### Product Dimensions

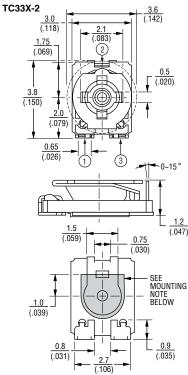


Mounting Note: The gray area can be used to apply cement to hold the unit in place during board processing, if required.

### **Recommended Land Pattern**



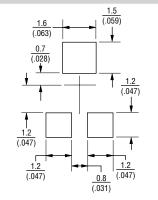


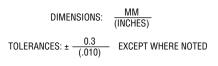


Mounting Note:

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

#### **Recommended Land Pattern**

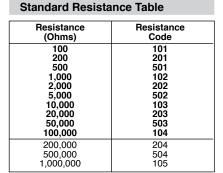




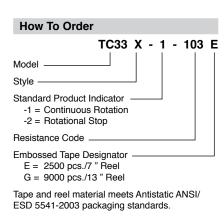
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# TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

# BOURNS



Popular distribution resistance values listed in boldface.

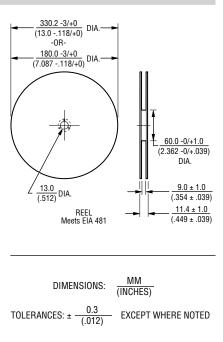


# **Recommended Storage Conditions**

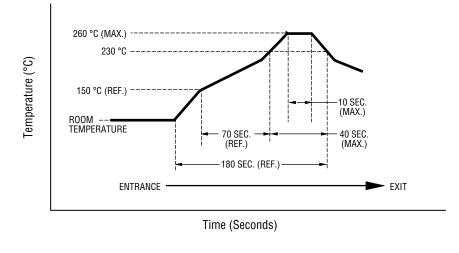
Temperature	+5 °C to +35 °C
Humidity	45 % to 85 % RH

### TC33X-1, -2 0.25 5.5 (.217) (.010) and the second 0.07 (.003) 17 (.067) 8.0 (.315) 2.75 (.108) 1.75 ± 0.1 3.5 ± 0.05 (.069 ± .004) (.138 ± .002) DIA. 1.55 ± 0.05 $\oplus$ (.061 ± .002) (+ $4.0 \pm 0.1$ (.157 ± .004) $4.0 \pm 0.1$ (.157 ± .004) 2.0 ± 0.1 (.079 ± .004) Ŧ TAPE

**Packaging Specifications** 



## **Recommended Reflow Solder Profile**



### REV. 05/19

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