

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* see processing information on RoHS compliant surface mount trimmers

■ For trimmer applications/processing guidelines, click here

TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range100 ohms to 1 megohm (see standard resistance table) Resistance Tolerance ±25 % std. 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......200 ° min.

Environmental Characteristics

Power Rating (50 VDC max.) 70 °C 0.1 watt Temperature Range....-40 °C to +100 °C Temperature Coefficient ±250 ppm/°C Humidity.....+40 °C, 95 %RH TRS max.±5 % Load Life

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

Rotational Cycling

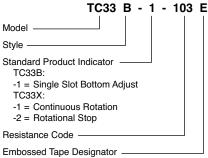
.....20 cycles, TRS ±10 %

Physical Characteristics

Torque...... 0.98-11.76 mN-m max. Mechanical AngleContinuous Marking.....Part marking code Standard Packaging ... 2000 pcs./7 " reel Adjustment Tool......H-90

Aqueous cleaning not recommended.

How To Order



E = 2000 pcs./7 " Reel (B Style) E = 2500 pcs./7 " Reel (X Style) G = 9000 pcs./13 " Reel (X Style)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Product Dimensions

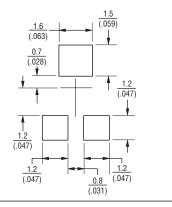
TC33X-1 3.0 (.118) (.083)1.75 (.069)3.8 (.150) (.079 (.059)0.75 (.030)SEE MOUNTING NOTE BELOW $\frac{1.0}{(.039)}$

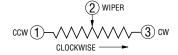
Mounting Note:

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

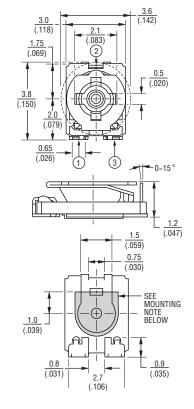
(.035)

Recommended Land Pattern





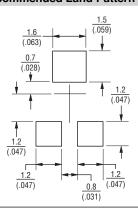
TC33X-2



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:

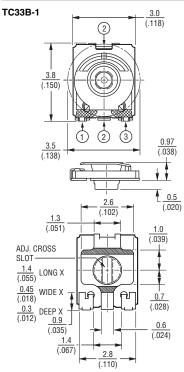
(INCHES)

TOLERANCES: ± **EXCEPT WHERE NOTED**

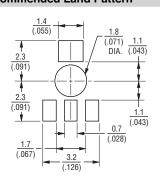
TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

BOURNS

Product Dimensions (Continued)



Recommended Land Pattern

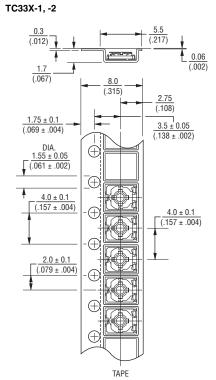


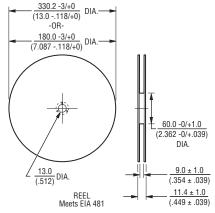
Standard Resistance Table

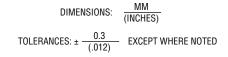
Resistance	Resistance			
(Ohms)	Code			
100	101			
200	201			
500	501			
1,000	102			
2,000	202			
5,000	502			
10,000	103			
20,000	203			
50,000	503			
100,000	104			
	-			
200,000	204			
500,000	504			
1.000.000	105			

Popular distribution resistance values listed in boldface.

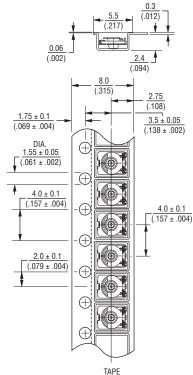
Packaging Specifications

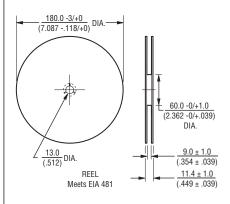












REV. 07/15

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

TC33X-2-1040	G TC33X-2-1020	G TC33X-2-102I	E TC33X-2-104	E TC33X-2-502E	TC33X-2-502G	TC33X-2-504E
TC33X-2-503E	TC33X-2-504G	TC33X-2-503G	TC33X-2-501E	TC33X-2-501G	TC33X-2-202E	TC33X-2-203G
TC33X-2-203E	TC33X-2-204G	TC33X-2-201E	TC33X-2-201G	TC33X-2-204E	TC33X-2-202G	TC33X-2-302G
TC33X-2-304E	TC33X-2-304G	TC33X-2-302E	TC33X-2-301E	TC33X-2-301G	TC33X-2-303G	TC33X-2-303E
TC33X-2-105E	TC33X-2-105G	TC33X-2-101G	TC33X-2-101E	TC33X-2-103G	TC33X-2-103E	TC33X-2-153E
TC33X-1-103E	TC33X-1-501E	TC33B-1-104E	TC33X-1-504E	TC33B-1-202E	TC33X-1-101E	TC33B-1-503E
TC33X-1-204E	TC33X-1-201E	TC33X-1-105E	TC33X-1-202E	TC33B-1-203E	TC33X-2-474E	TC33X-1-102E
TC33X-1-503E	TC33B-1-504E	TC33B-1-102E	TC33X-1-104E	TC33X-1-502E	TC33X-2-333E	TC33B-1-204E
TC33X-1-203E						