

#### **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 auidelines, click here

# TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

#### **Electrical Characteristics**

Standard Resistance Range ......100 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 ±5 %

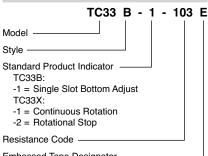
#### **Physical Characteristics**

Torque...... 0.98-11.76 mN-m max. Mechanical Angle\* ......Continuous; 270 ° ±20 ° Marking.....Part marking code Standard Packaging ... 2000 pcs./7 " reel Adjustment Tool......H-90

\*The lower limit of the rotational angle standard is 250°, but there is non-valid rotational range of 10 % or less on each end.

Aqueous cleaning not recommended.

**How To Order** 



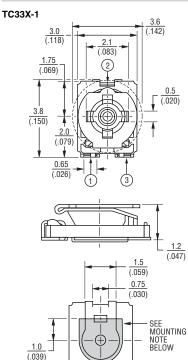
Embossed Tape Designator

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**



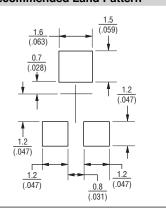
Mounting Note:

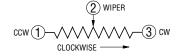
The gray area can be used to apply cement to hold the unit in place during board processing, if required

.106)

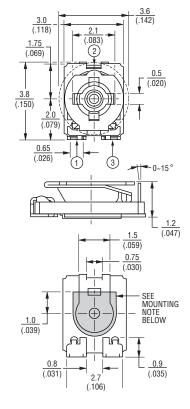
(.035)

## **Recommended Land Pattern**





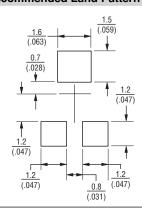
#### TC33X-2



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**



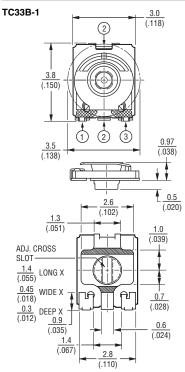
DIMENSIONS: (INCHES)

TOLERANCES: ± **EXCEPT WHERE NOTED** 

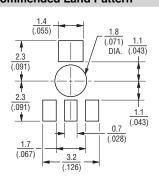
# TC33 - 3 mm SMD Trimpot® Trimming Potentiometer

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#### **Product Dimensions (Continued)**



# **Recommended Land Pattern**

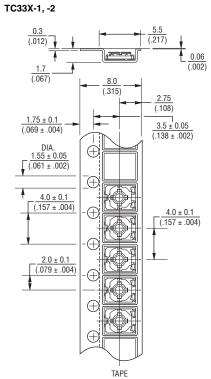


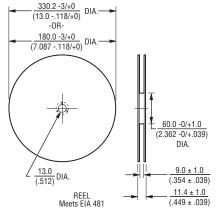
# **Standard Resistance Table**

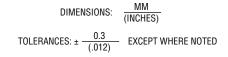
Resistance	Resistance
(Ohms)	Code
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1.000.000	105

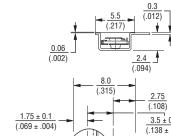
Popular distribution resistance values listed in boldface.

#### **Packaging Specifications**

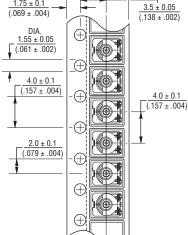


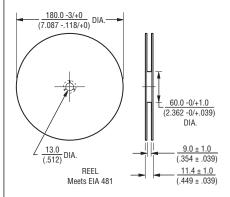






TC33B-1





TAPE

REV. 04/14

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