

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
- Available as bottom adjust only
- RoHS compliant* - see [processing information](#) on lead free surface mount trimmers

TC33 - 3 mm SMD 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.

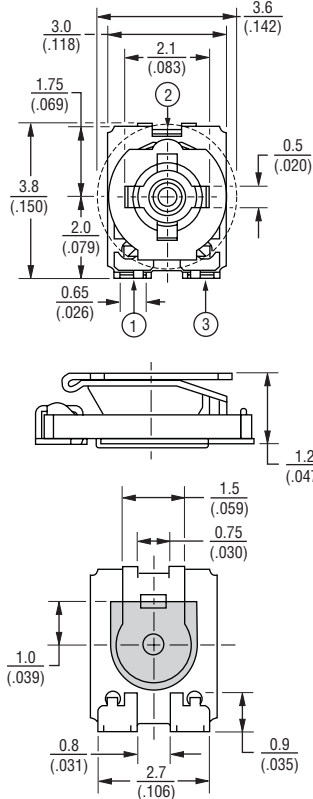
How To Order

TC33 B - 1 - 103 E

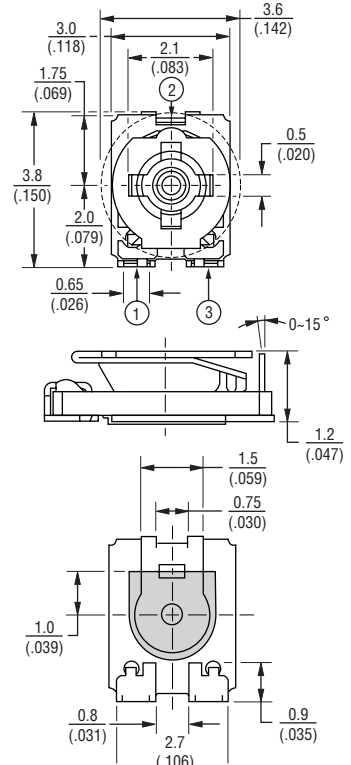
Model _____
 Style _____
 Standard Product Indicator _____
 TC33B:
 -1 = Single Slot Bottom Adjust
 TC33X:
 -1 = Continuous Rotation
 -2 = Rotational Stop
 Resistance Code _____
 Embossed Tape Designator _____
 E = 2000 pcs./7 " Reel (B Style)
 X = 2500 pcs./7 " Reel (X Style)
 G = 9000 pcs./13 " Reel (X Style)

Product Dimensions

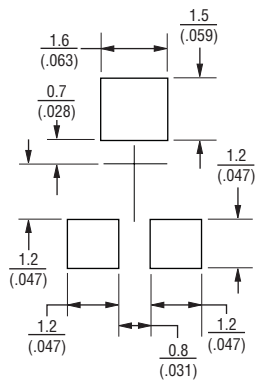
TC33X-1



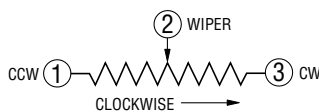
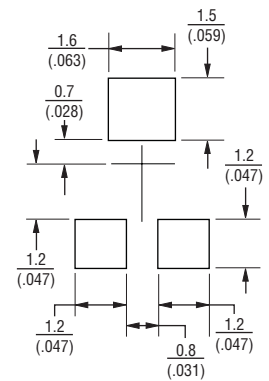
TC33X-2



Recommended Land Pattern



Recommended Land Pattern



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
 TOLERANCES: ± $\frac{0.3}{(0.010)}$ EXCEPT WHERE NOTED

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications

