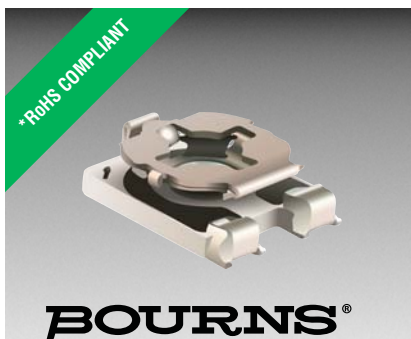




Features

- 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 Range
..... 100 ohms to 1 megohm
(see standard resistance table)
Resistance Tolerance $\pm 25\%$ 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. $\pm 5\%$
Load Life
..... @ 70 °C rated power 1000 hours
TRS $\pm 5\%$
Rotational Cycling..20 cycles, TRS $\pm 5\%$

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

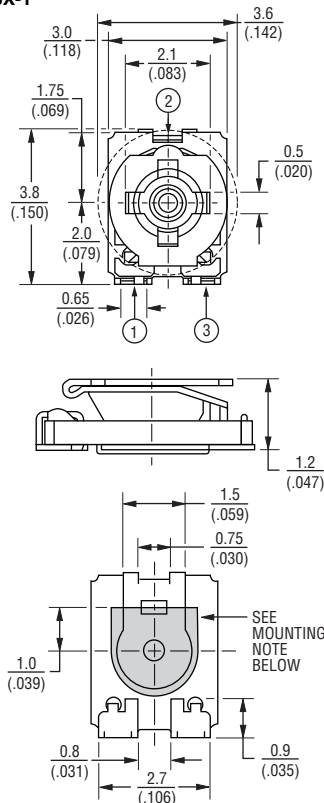
TC33 B - 1 - 103 E

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)
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.

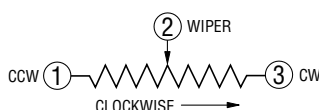
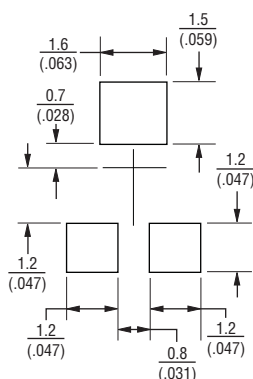
Product Dimensions

TC33X-1

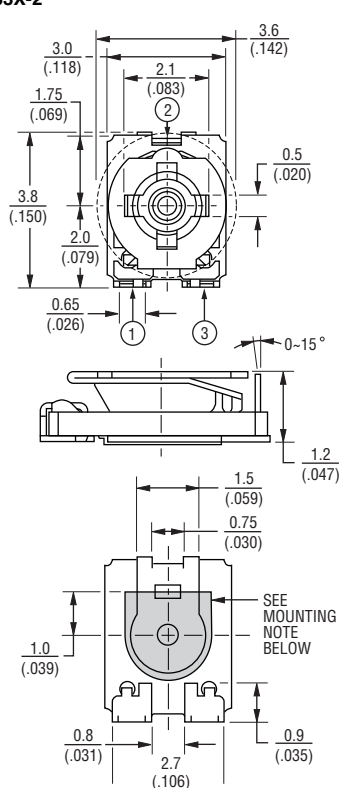


Mounting Note:
The gray area can be used to apply cement to hold the unit in place during board processing, if required.

Recommended Land Pattern

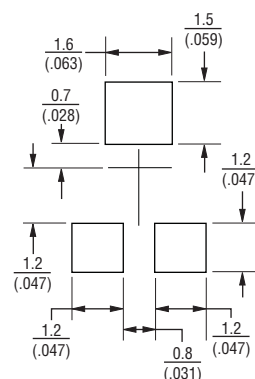


TC33X-2



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: $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCES: $\pm \frac{0.3}{(.010)}$ EXCEPT WHERE NOTED

BOURNS®

Users should verify actual device performance in their specific applications.

Mouser Electronics

Authorized Distributor

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

Bourns:

TC33X-2-104G	TC33X-2-102G	TC33X-2-102E	TC33X-2-104E	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						