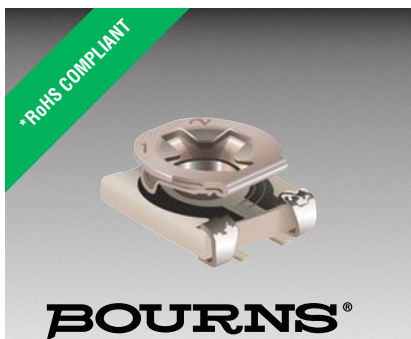




## Features

- Recommended for reflow processing
- Rotor design compatible with pick and place and automatic adjustment equipment
- Supplied in 8 mm embossed tape, compatible with automatic assembly equipment
- Rear adjust version available
- 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](#)

## 3303 - 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  
≤ 1K Ohms ..... 20 ohms max.  
> 1K Ohms ..... 2 % max. of TR  
Contact Resistance Variation . 5 % max.  
Resolution ..... Infinite  
Adjustment Angle .....  $260^\circ \pm 20^\circ$

### Environmental Characteristics

Resistance to Soldering Heat  
...  $260^\circ\text{C}$ , 10 seconds, TRS max. 5 %  
Power Rating (50 VDC max.)  
70 °C ..... 0.15 watt  
Temperature Range ...  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$   
Temperature Coefficient ...  $\pm 250$  ppm/ $^\circ\text{C}$   
Humidity ..... 95 %RH  
500 hours  
TRS max. ....  $\pm 5\%$   
Load Life  
.....@  $70^\circ\text{C}$  rated power 500 hours  
TRS  $\pm 5\%$   
Rotational Cycling ..... 20 turns  
TRS  $\pm 15\%$

### Physical Characteristics

Torque..... 20-200 g-cm max.  
Mechanical Angle ..... Continuous  
Marking..... Part marking code  
Standard Packaging  
..... 2000 pcs./7 " reel  
Adjustment Tool..... H-90

Aqueous cleaning not recommended.

### How To Order

Model **3303 X - 3 - 103 E**

Style \_\_\_\_\_

Orientation of Parts In Tape:

- Styles W, C -Terminals Toward Sprocket Holes
- Styles X, D - Terminals Away From Sprocket Holes (preferred)

Standard or Modified  
Product Indicator \_\_\_\_\_

-1 = Single Slot  
(C, D Pin Styles Only)

-3 = Cross Slot Low Profile  
(W, X Pin Styles Only)

Resistance Code \_\_\_\_\_

Embossed Tape Designator \_\_\_\_\_

Consult factory for other available options.

\*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.

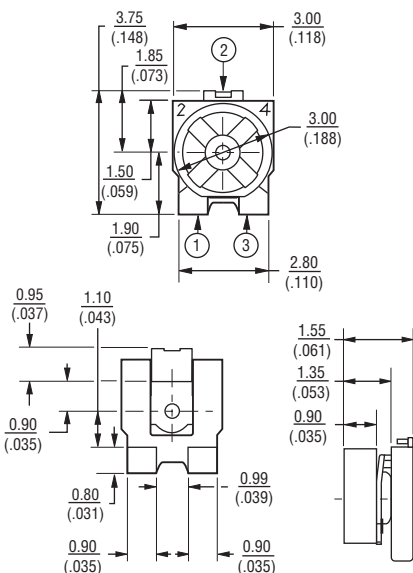
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

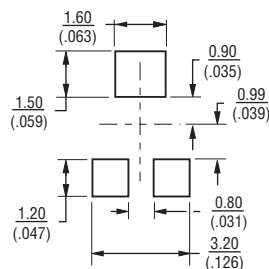
### Product Dimensions

#### 3303W, X-3

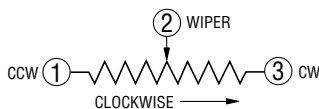
3mm Open Frame  
for Reflow Soldering  
3-Terminal  
Low Profile



#### SUGGESTED PWB LAYOUT

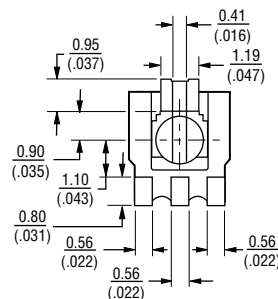
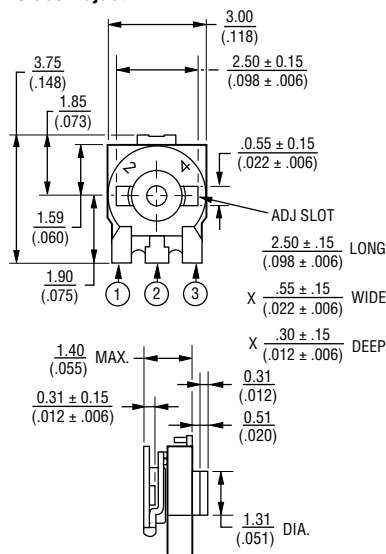


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$   
TOLERANCES:  $\pm \frac{0.30}{(.012)}$  EXCEPT WHERE NOTED

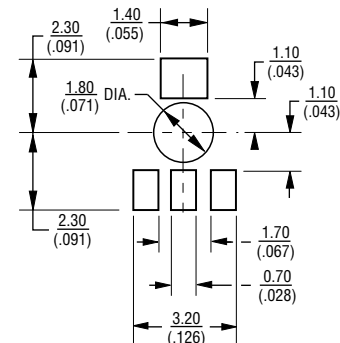


#### 3303C,D-1

3-Terminal  
Both Sides Adjust



#### SUGGESTED PWB LAYOUT

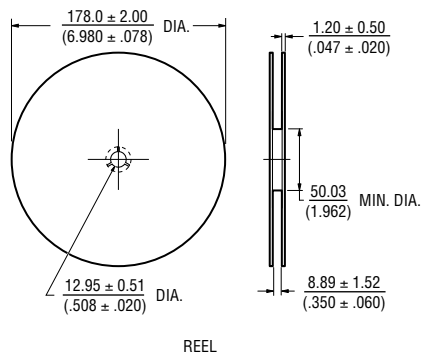
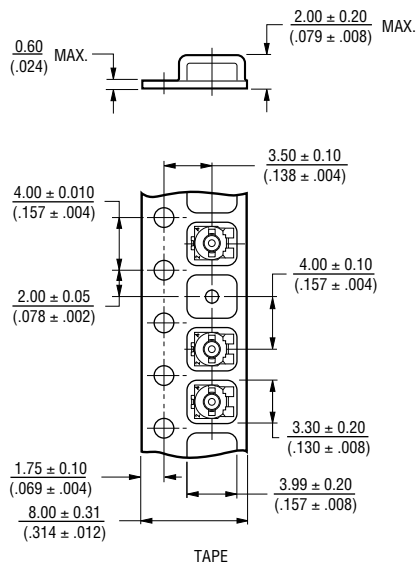


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$   
TOLERANCES:  $\pm \frac{0.38}{(.015)}$  EXCEPT WHERE NOTED

# 3303 - 3 mm SMD Trimpot® Trimming Potentiometer

**BOURNS®**

## Packaging Specifications



Meets EIA 481

## Standard Resistance Table

| Resistance (Ohms) | Part Marking Code | Resistance Code |
|-------------------|-------------------|-----------------|
| 100               | 12                | 101             |
| 200               | 22                | 201             |
| 500               | 52                | 501             |
| <b>1,000</b>      | <b>13</b>         | <b>102</b>      |
| <b>2,000</b>      | <b>23</b>         | <b>202</b>      |
| <b>5,000</b>      | <b>53</b>         | <b>502</b>      |
| <b>10,000</b>     | <b>14</b>         | <b>103</b>      |
| <b>20,000</b>     | <b>24</b>         | <b>203</b>      |
| 50,000            | 54                | 503             |
| 100,000           | 15                | 104             |
| 200,000           | 25                | 204             |
| 500,000           | 55                | 504             |
| 1,000,000         | 16                | 105             |

Popular distribution resistance values listed in boldface. Special resistances available.

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

TOLERANCES: ±  $\frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

REV. 04/14

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Users should verify actual device performance in their specific applications.