

AVAILABLE  
THROUGH  
DISTRIBUTION



**BOURNS®**

# TC89 9 mm Round Trimming Potentiometer

## Features

- 9 mm Round / Single-Turn / Cermet Industrial / Open Frame
- Both sides adjust
- Horizontal and vertical mounting styles
- Dust resistant/splash resistant covers
- PC board stand-offs
- RoHS compliant\*

## Electrical Characteristics

Standard Resistance Range .....100 ohms to 1 megohm  
(see standard resistance table)  
Resistance Tolerance .....±20 % std.  
Absolute Minimum Resistance  
≤500 Ohms .....10 ohms max.  
>500 Ohms .....2 % max. of TR  
Contact Resistance Variation .....5 % max.  
Resolution .....Infinite  
Adjustment Angle .....270 ° ±15 °

## Environmental Characteristics

Power Rating (250 VDC max.)  
70 °C .....0.5 watt  
Temperature Range.....-30 °C to +100 °C  
Temperature Coefficient .....±250 ppm/°C  
Humidity .....95 % RH  
TRS ±5 %  
Load Life .....500 hours @ 70 °C  
TRS ±5 %  
Rotational Cycling .....50 cycles  
TRS ±10 %

## Physical Characteristics

Torque .....50-350 gf-cm  
Mechanical Angle .....270 ° ±15 °  
Marking .....Part marking code  
Standard Packaging .....200 pcs./bag  
Adjustment Tool .....H-90  
Aqueous cleaning not recommended

## Standard Resistance Table

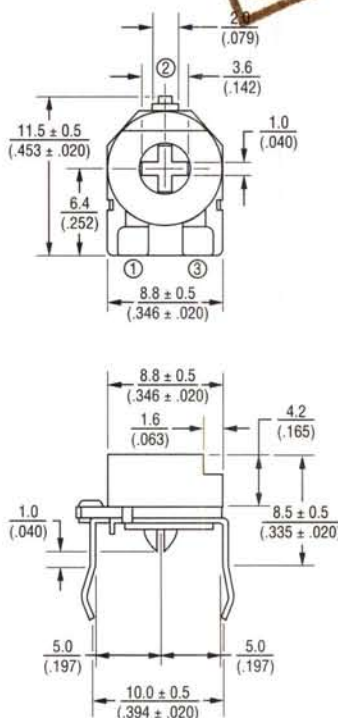
| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| <b>100</b>        | <b>101</b>      |
| <b>200</b>        | <b>201</b>      |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      |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

Popular distribution resistance values listed in **boldface**.

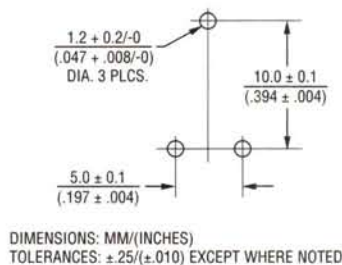
Specifications are subject to change without notice.  
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
Customers should verify actual device performance in their specific applications. REV 09/04

## Product Dimensions

Top Adjust  
TC89P



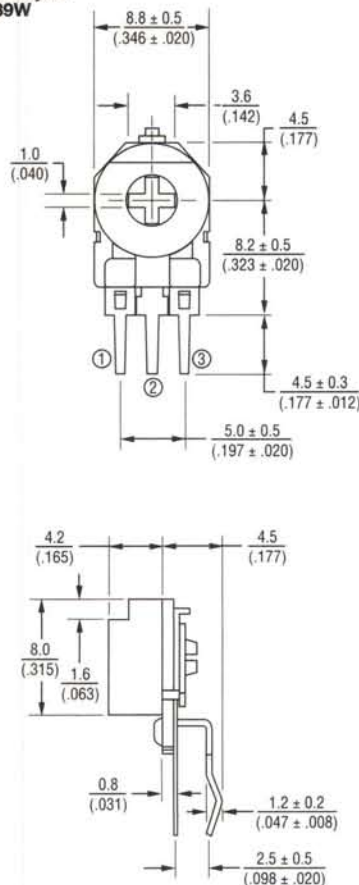
## Suggested PCB Layout



## How To Order

Model TC89 P - 1 - 103  
Style \_\_\_\_\_  
Standard Product Indicator \_\_\_\_\_  
Resistance Code \_\_\_\_\_

Side Adjust  
TC89W



## Suggested PCB Layout

