



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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\*

OBSOLETE

### 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

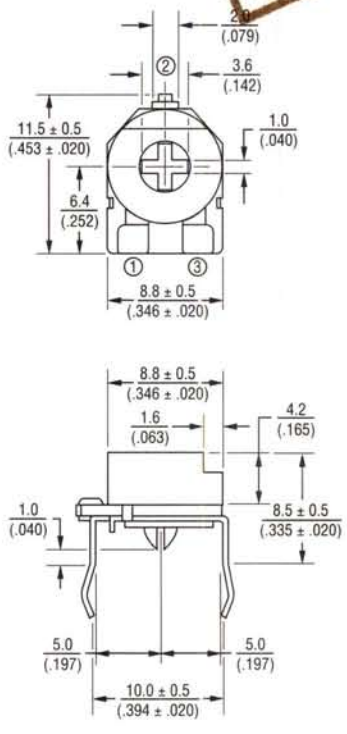
Resistance (Ohms)	Resistance Code
<b>100</b>	<b>101</b>
<b>200</b>	<b>201</b>
<b>500</b>	<b>501</b>
<b>1,000</b>	<b>102</b>
<b>2,000</b>	<b>202</b>
<b>5,000</b>	<b>502</b>
<b>10,000</b>	<b>103</b>
<b>20,000</b>	<b>203</b>
<b>50,000</b>	<b>503</b>
<b>100,000</b>	<b>104</b>
<b>200,000</b>	<b>204</b>
<b>500,000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

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

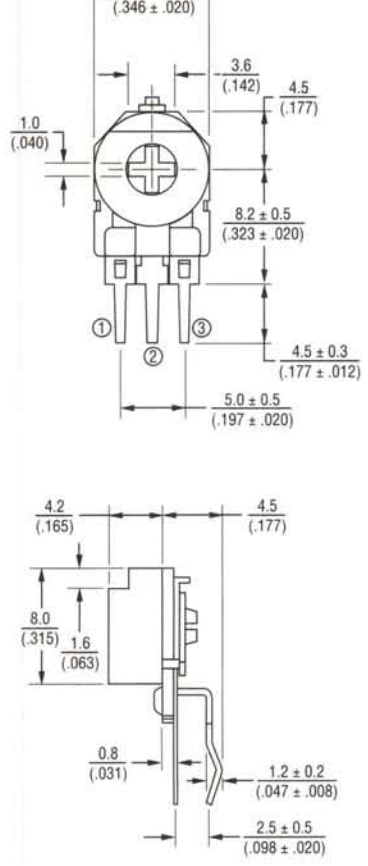
Specifications are subject to change without notice.  
 \*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 Customers should verify actual device performance in their specific applications. REV 09/04

### Product Dimensions

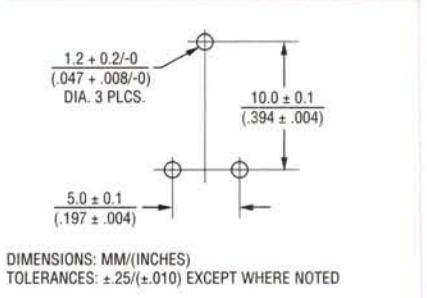
Top Adjust  
TC89P



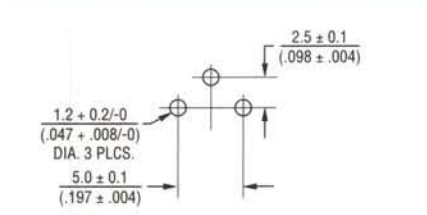
Side Adjust  
TC89W



### Suggested PCB Layout



### Suggested PCB Layout



### How To Order

TC89 P - 1 - 103

Model \_\_\_\_\_  
 Style \_\_\_\_\_  
 Standard Product Indicator \_\_\_\_\_  
 Resistance Code \_\_\_\_\_

