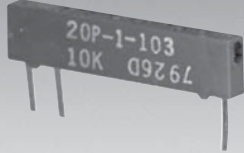


\*RoHS COMPLIANT  
VERSIONS  
AVAILABLE



**BOURNS®**

## Features

- Multiturn / Cermet / Sealed
- Machine insertable SIP design provides extra cost savings
- .080 inch width allows side-by-side spacing on standard 0.100 inch grid
- PC board profile - only 0.185 inches high



Model 20 is currently available, although not recommended for new designs.

## 20 - 20 mm Rectangular Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range  
..... 10 ohms to 2 megohms  
(see standard resistance table)

Resistance Tolerance ..... ±10 % std.

Absolute Minimum Resistance  
..... 5.0 % or 3 ohms max.  
(whichever is greater)

Contact Resistance Variation  
..... 1.0 % or 1 ohm max.  
(whichever is greater)

Adjustability  
Voltage.....±0.01 %  
Resistance.....±0.05 %

Resolution.....Infinite

Insulation Resistance ..... 500 vdc.  
100 megohms min.

Dielectric Strength  
Sea Level.....1000 vac  
70,000 Feet .....350 vac  
Effective Travel.....15 turns nom.

### Environmental Characteristics

Power Rating (250 volts max.)  
70 °C.....0.25 watt  
150 °C .....0 watt

Temperature Range.....-55 °C to +125 °C

Temperature Coefficient  
50 Ohms and Above..... ±100 ppm/°C  
Below 50 Ohms ..... ±150 ppm/°C

Seal Test.....85 °C Fluorinert†

Humidity..... MIL-STD-202 Method 103  
96 hours  
(3 % ΔTR, 20 megohms IR)

Vibration.....20 G (1 % ΔTR; 1 % ΔVR)

Shock.....50 G (1 % ΔTR; 1 % ΔVR)

Load Life  
..... 1,000 hours, 0.25 watt @ 70 °C  
(3 % ΔTR, 3 % or 3 ohms  
whichever is greater, CRV)

Rotational Life.....200 cycles  
(3 % ΔTR, 3 % or 3 ohms  
whichever is greater, CRV)

### Physical Characteristics

Torque ..... 5.0 oz-in. max.

Mechanical Angle ..... Wiper idles

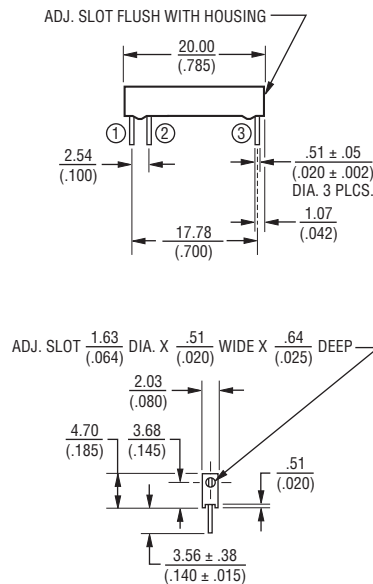
Terminals..... Solderable pins

Weight .....0.015 oz.

Marking ..... Manufacturer's  
trademark, resistance code,  
terminal numbers, date code,  
manufacturer's model number  
and style

Standard Packaging.....25 pcs. per tube

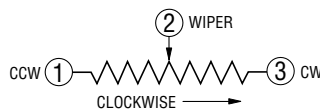
### Product Dimensions



\*BOURNS ADJUSTMENT TOOL H-91  
AVAILABLE FOR THIS MODEL.

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

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



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105
2,000,000	205

### How To Order

**20 P - 1 - 103 LF**

Model \_\_\_\_\_

Style \_\_\_\_\_

Standard or Modified  
Product Indicator \_\_\_\_\_  
-1 = Standard Product

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

Terminations \_\_\_\_\_  
LF = 100 % Tin-plated (RoHS compliant)  
Blank = 90 % Tin / 10 % Lead-plated  
(Standard)

Consult factory for other available options.

REV. 10/09

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
"Trimpot" is a registered trademark of Bourns, Inc.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.