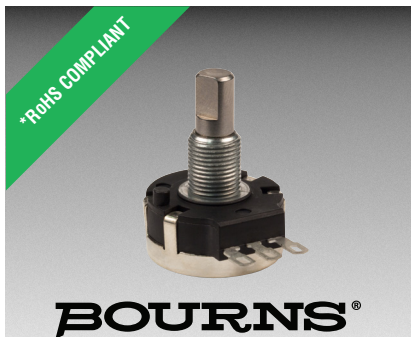




Features

- Long life carbon element
- Plain or slotted shaft option
- Anti-rotation pin
- Metal shaft
- Audio or linear taper options
- Variety of resistance values
- RoHS compliant*

Applications

- Medical diagnostic equipment**
- Test and measurement equipment
- Avionics controls
- Communications equipment
- Medical laboratory equipment**

PDF24 - 24 mm Long Life Potentiometer

Electrical Characteristics

Taper.....Audio, linear
Standard Resistance1K to 1M ohms
Standard Resistance Tolerance..... $\pm 10\%$
Linearity..... $\pm 3\%$

Environmental Characteristics

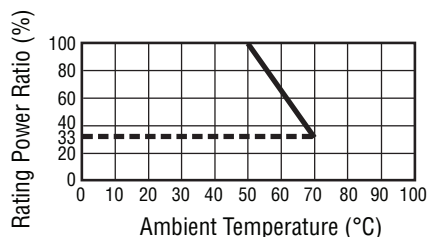
Operating Temperature...-10 °C to +85 °C
Power Rating
Linear Taper0.5 watt
Audio Taper0.25 watt
Maximum Operating Voltage
Linear and Audio Taper200 VDC
Sliding Noise
Linear100 mV max.
Other Tapers200 mV max.
IP Rating**.....IP40
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

**Please consult factory for other options.

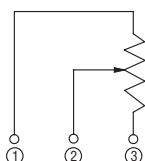
Mechanical Characteristics

Mechanical Angle300 ° $\pm 10^\circ$
Rotational Torque5 to 70 g-cm
Stop Strength.....9 kg-cm min.
Rotational Life
.....1,000,000 shaft revolutions
Soldering Condition
Manual Soldering
.....350 °C $\pm 10^\circ$ for 3.5 $\pm$ 0.5 sec.
Hardware.....One flat washer and
mounting nut supplied per
potentiometer with bushing

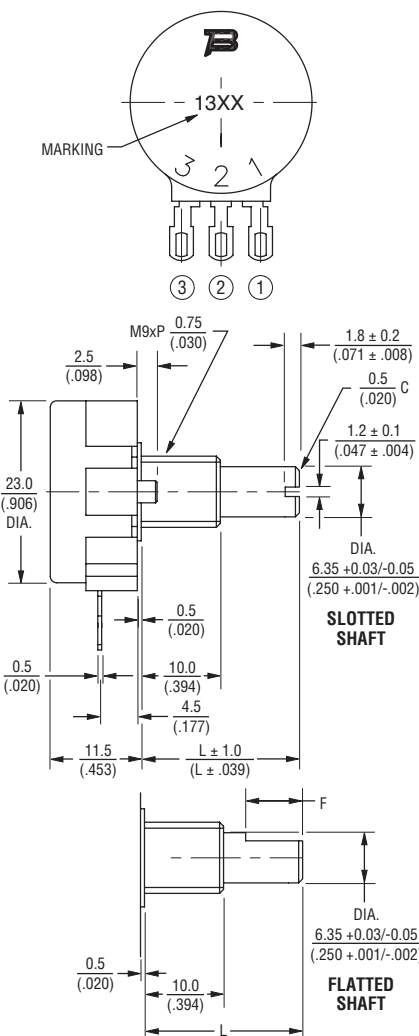
Derating Curve



Circuit



Product Dimensions



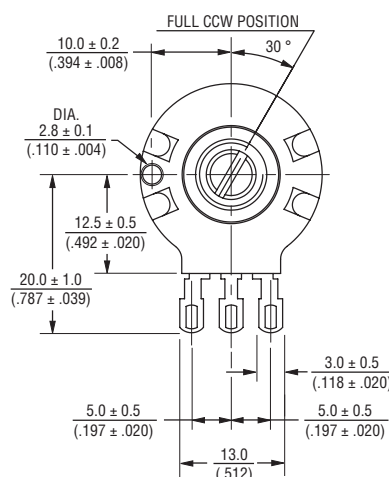
S-Type

L	20	25	30	35	40
	(.787)	(.984)	(1.181)	(1.378)	(1.575)

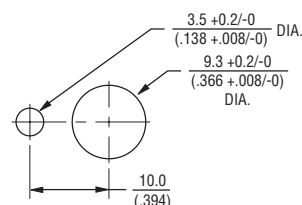
F-Type

L	20	25	30	35
	(.787)	(.984)	(1.181)	(1.378)
F	7	7	12	12
	(.276)	(.276)	(.472)	(.472)

DIMENSIONS: MM
(INCHES)

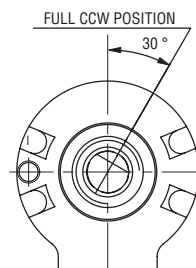


Recommended Pad Layout

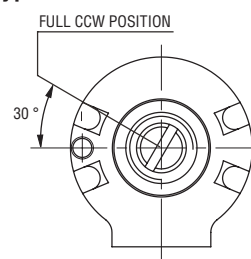


Shaft Types

F-Type



S-Type



* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Excluding FDA Class III devices and generally equivalent classification outside of the United States. 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.

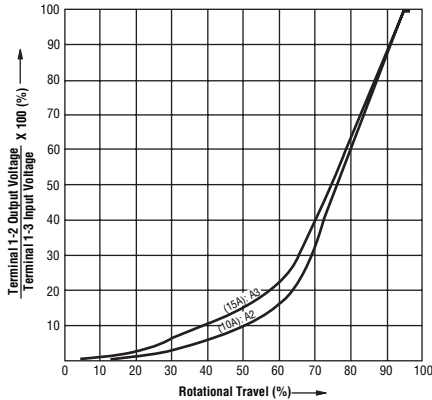
Users should verify actual device performance in their specific applications.

PDF24 - 24 mm Long Life Potentiometer

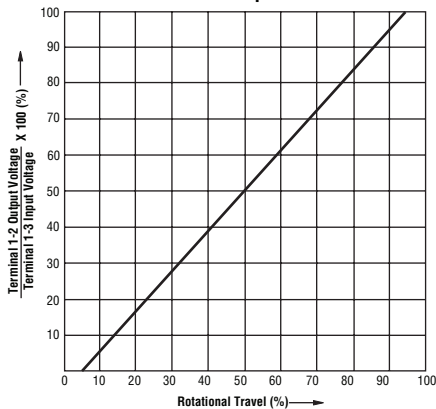
BOURNS®

Tapers

A Series Tapers



B0 Taper



Standard Resistance Table

Resistance (Ohms)	Resistance Code
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

How To Order

PDF24 1 - S 4 20 F - 103 B0

Model _____
 Number of Units _____
 1 = Single
 Orientation _____
 S = Solder Lugs
 Down Facing
 Detents _____
 4 = No Detents
 Shaft Length (FMS) _____
 20 = 20 mm
 25 = 25 mm
 30 = 30 mm
 35 = 35 mm
 40 = 40 mm*
 Shaft Type _____
 F = Flatted Shaft
 S = Slotted Shaft
 Resistance Code (See Table) _____
 Resistance Taper (See Taper Charts) _____

* Available in slotted shaft style only.

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