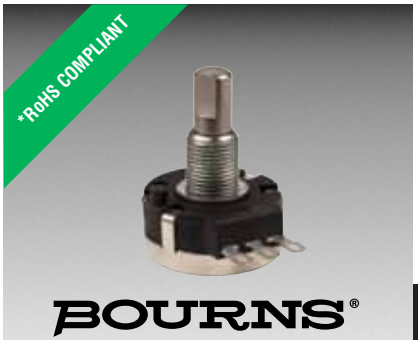


Features

- 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 Resistance .....1K to 1M ohms
Standard Resistance Tolerance....±10 %
Linearity.....±3 %

Environmental Characteristics

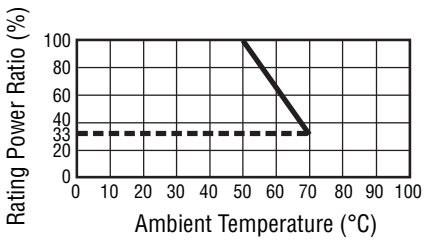
Operating Temperature...-10 °C to +85 °C
Power Rating
  Linear Taper ..... 0.5 watt
  Audio Taper ..... 0.25 watt
Maximum Operating Voltage
  Linear and Audio Taper ..... 200 VDC
Sliding Noise
  Linear .....100 mV max.
  Other Tapers .....200 mV max.
IP Rating**.....IP40
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

***Please consult factory for other options.*

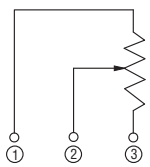
Mechanical Characteristics

Mechanical Angle .....300 ° ±10 °
Rotational Torque .....5 to 70 g-cm
Stop Strength..... 9 kg-cm min.
Rotational Life
  .....1,000,000 shaft revolutions
Soldering Condition
  Manual Soldering
  ..... 350 °C ± 10 °C for 3.5 ± 0.5 sec.
Hardware.....One flat washer and mounting nut supplied per potentiometer with bushing

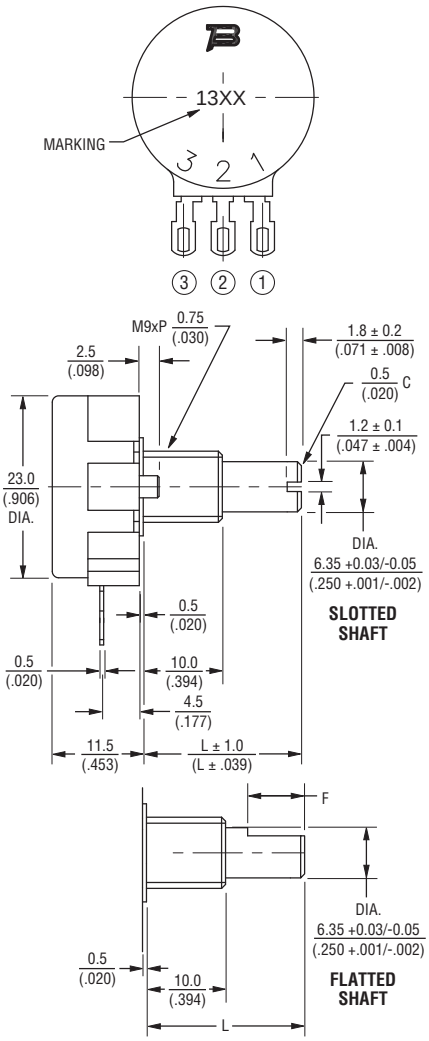
Derating Curve

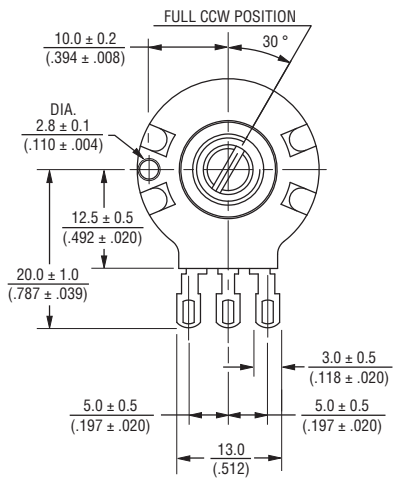


Circuit



Product Dimensions





S-Type

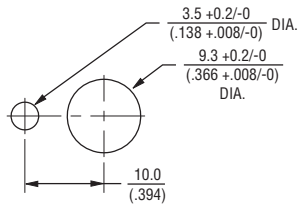
L	20 (.787)	25 (.984)	30 (1.181)	35 (1.378)	40 (1.575)

F-Type

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

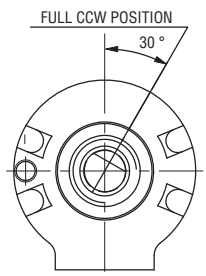
DIMENSIONS: MM (INCHES)

Recommended Pad Layout

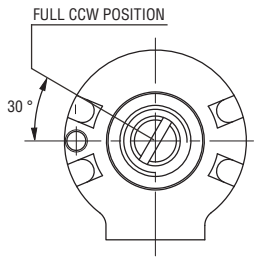


Shaft Types

F-Type



S-Type



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Excluding FDA Class III devices and generally equivalent classification outside of the United States.
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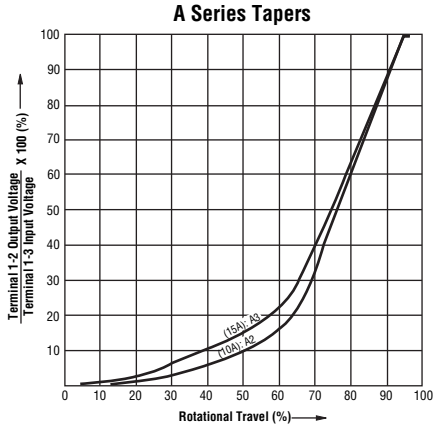
PDF24 - 24 mm Long Life Potentiometer

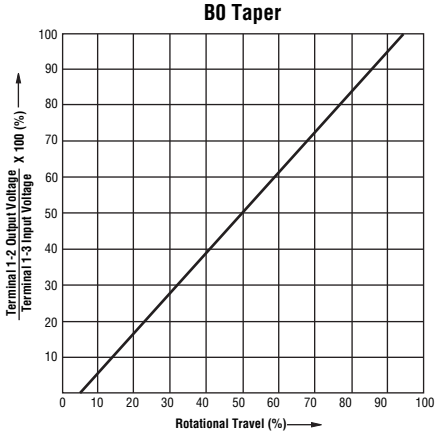
BOURNS®

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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