

## Features

- Standard or high torque option
- Long life carbon element
- Plain or knurled shaft option
- Brass bushing
- Metal shaft
- Audio or linear taper options
- Variety of resistance values



This series is currently available but not recommended for new designs.

## PDA24 - 24 mm Long Life Potentiometer

### Electrical Characteristics

Taper.....Audio, linear  
 Standard Resistance  
 .....from 10K to 1M ohms  
 Standard Resistance Tolerance.....±15 %

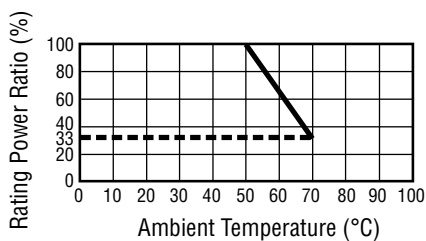
### Environmental Characteristics

Operating Temperature  
 .....-10 °C to +70 °C  
 Power Rating  
 Linear Taper ..... 0.5 watt  
 Audio Taper ..... 0.25 watt  
 Maximum Operating Voltage  
 Linear Taper .....500 V  
 Audio Taper .....250 V  
 Rotational Noise ..... 100 mV max.

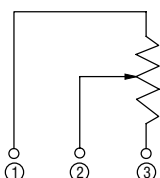
### Mechanical Characteristics

Mechanical Angle ..... 300 ° ±5 °  
 Rotational Torque  
 Standard..... 20 to 40 g-cm  
 High..... 70 to 100 g-cm  
 Stop Strength..... 7 kg-cm min.  
 Rotational Life  
 .....200,000 shaft revolutions  
 Soldering Condition  
 Manual Soldering  
 ..... 300 °C within 3 seconds  
 Wave Soldering  
 ..... 260 °C within 5 seconds  
 Hardware .....One flat washer and  
 mounting nut supplied per  
 potentiometer with bushing

### Derating Curve

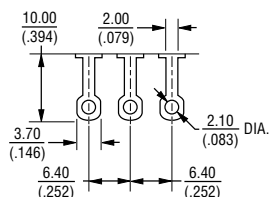
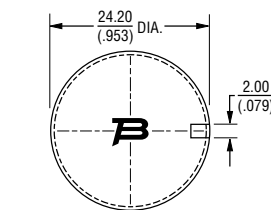
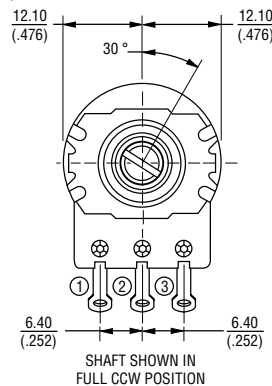
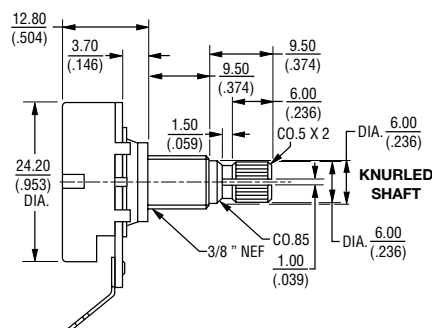


### Circuit



### Product Dimensions

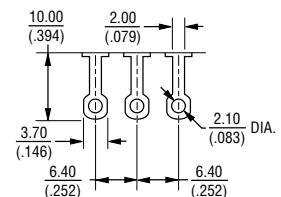
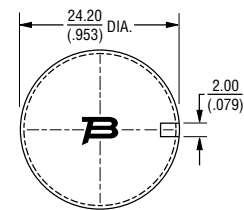
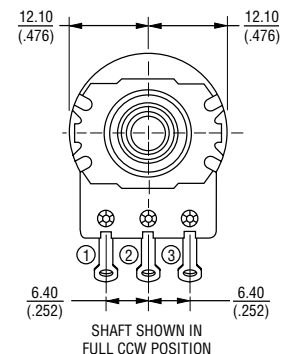
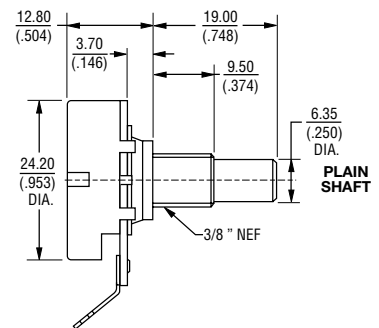
#### PDA241-xxx00, PDA241-xxx01



TOLERANCES:  
 UNDER 10.0 = ±0.3 / (.394) = (±.012)    10.0 - 100 = ±0.5 / (.394 - 3.937) = (±.020)

DIMENSIONS:    MM  
 (INCHES)

#### PDA241-xxx02



TOLERANCES:  
 UNDER 10.0 = ±0.3 / (.394) = (±.012)    10.0 - 100 = ±0.5 / (.394 - 3.937) = (±.020)



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
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## Additional Features

- Long life
- Long solder lugs
- ±15 % resistance tolerance
- Anti-rotation pins
- RoHS compliant\*

## Applications

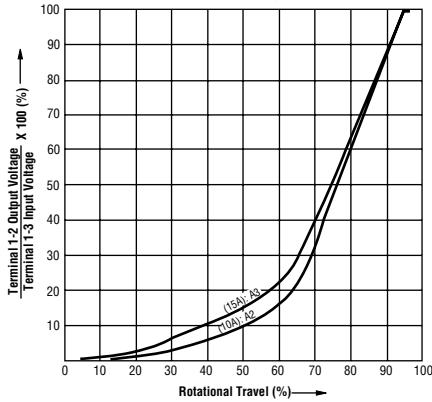
- Electric guitars
- Bass guitars
- Guitar amplifiers

# PDA24 - 24 mm Long Life Potentiometer

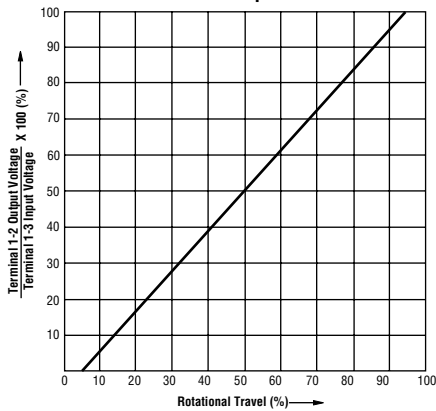
# BOURNS®

### Tapers

#### A Series Tapers



#### B0 Taper



### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10,000            | 103             |
| 25,000            | 253             |
| 50,000            | 503             |
| 100,000           | 104             |
| 250,000           | 254             |
| 300,000           | 304             |
| 500,000           | 504             |
| 1,000,000         | 105             |

### How To Order

**PDA24 1 - SRT 01 - 504 A2**

Model \_\_\_\_\_

Number of Units \_\_\_\_\_  
1 = Single

Torque Option \_\_\_\_\_  
Standard = SRT  
High = HRT

Configuration \_\_\_\_\_  
00 = Knurled Shaft (18 Teeth) / Long Solder Lugs  
01 = Knurled Shaft (24 Teeth) / Long Solder Lugs  
02 = Plain Shaft / Long Solder Lugs

Resistance Code (See Table) \_\_\_\_\_

Resistance Taper (See Taper Charts) \_\_\_\_\_

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