

### **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.

#### **Electrical Characteristics**

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

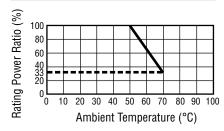
#### **Environmental Characteristics**

Operating Temperature

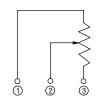
.....-10 °C to +70 °C Power Rating Linear Taper ...... 0.5 watt Audio Taper ...... 0.25 watt Maximum Operating Voltage Linear Taper .....500 V Audio Taper......250 V Rotational Noise ......100 mV max.

**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**

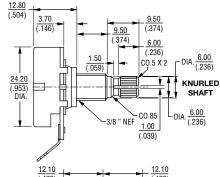


#### Circuit

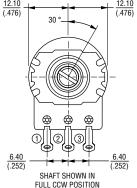


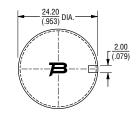
#### **Product Dimensions**

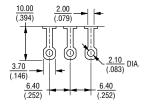
#### PDA241-xxx00, PDA241-xxx01



PDA24 - 24 mm Long Life Potentiometer



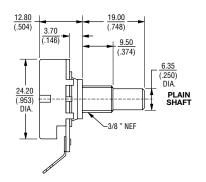


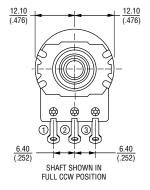


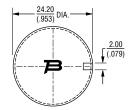
TOLERANCES: UNDER  $\frac{10.0}{(.394)} = \frac{\pm 0.3}{(\pm .012)}$  $\frac{1}{(.394 \sim 3.937)} = \frac{1}{(\pm .020)}$ 

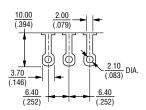
> MM DIMENSIONS: (INCHES)

#### PDA241-xxx02









TOLERANCES: UNDER  $\frac{10.0}{(.394)}$ (±.012)

Users should verify actual device performance in their specific applications.

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<sup>\*</sup>RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

### **Additional Features**

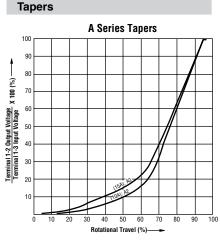
- Long life
- Long solder lugs
- ±15 % resistance tolerance
- Anti-rotation pins
- RoHS compliant\*

### **Applications**

- Electric guitars
- Bass guitars
- Guitar amplifiers

# PDA24 - 24 mm Long Life Potentiometer

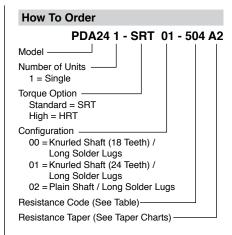
# **BOURNS**®



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Rotational Travel (%)												
BO Taper												
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†	90											
	80								$\overline{}$			
% 00	70											
Terminal 1-2 Output Voltage X 100 (%)	00											
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3 <u>1</u>	40					$\angle$						
inal 1	30											
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. 1	20											

Rotational Travel (%)-

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					



# **BOURNS**®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 885 877 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

REV. 11/19

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