

### **Features**

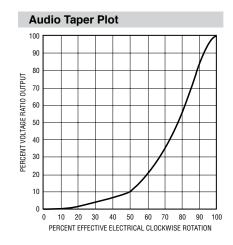
- Plain or knurled shaft option
- 10 % TR tolerance
- Conductive polymer element
- Very low noise
- Single-turn
- 250K and 500K resistances



# **Model 82 Vintage Premium Guitar Potentiometer**

Initial Electrical Characteristics <sup>1</sup>	
Standard Resistance Value	
Total Resistance Tolerance	
Independent Linearity	
Absolute Minimum Resistance	
Effective Electrical Angle	
Contact Resistance Variation	±1 %
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level	
70,000 Feet	
Insulation Resistance (500 VDC)	1,000 megonms minimum
Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever Is Less)	0.05
+70 °C	0.25 wati
+125 °C	
Theoretical Resolution	Essentially infinite
Environmental Characteristics <sup>1</sup>	
Operating Temperature Range	-40 °C to +125 °C
Storage Temperature Range	55 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range	±1,000 ppm/°C
Vibration	15 G
Total Resistance Shift	±2 % maximum
Voltage Ratio Shift	±5 % maximum
Shock	30 G
Total Resistance Shift	
Voltage Ratio Shift	±5 % maximum
Load Life	1,000 hours
Total Resistance Shift	±10 % maximum
Rotational Life (No Load)	
Total Resistance Shift	
Contact Resistance Variation @ 50,000 cycles	±3 %
Moisture Resistance (MIL-STD-202, Method 103, Condition B)	
Total Resistance Shift	±20 % TRS maximum
Insulation Resistance (500 VDC)	
P Rating	IP 40
Mechanical Characteristics <sup>1</sup>	
Mechanical Angle	300 ° ±5 °
Rotational Torque	
Weight	
Terminals	3
Soldering Condition	
Maximum temperature 399 °C (750 °F) for 3 seconds.	. No wash process to be used with no clean flux.
Marking	te code, resistance, manufacturer's part number
Hardware	nuts (H-38-2) and one solder lug washer (H-127)
	are shipped with each potentiometer

<sup>&</sup>lt;sup>1</sup> ELECTRCAL SPECIFICATIONS TESTED AT 250 RPM, AT ROOM AMBIENT: +25 °C NOMINAL.



### **Selection Guide**

Part Number	Taper/Shaft	Resistance Value $(\Omega)$
82A1D-A24-BA0/186L	Audio/Plain	500K
82A1D-A24-BA0/187L	Audio/Plain	250K
82A1D-Z28-BA0/254L	Audio/Knurled	500K
82A1D-Z28-BA0/255L	Audio/Knurled	250K
82Z1D-Z33-BA0/753L	Audio/Knurled (Long Bushing)	250K
82Z1D-Z33-BA0/754L	Audio/Knurled (Long Bushing)	500K

### **Schematic**





\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

## **Additional Features**

- Standard audio taper
- Long rotational life
- RoHS compliant\*

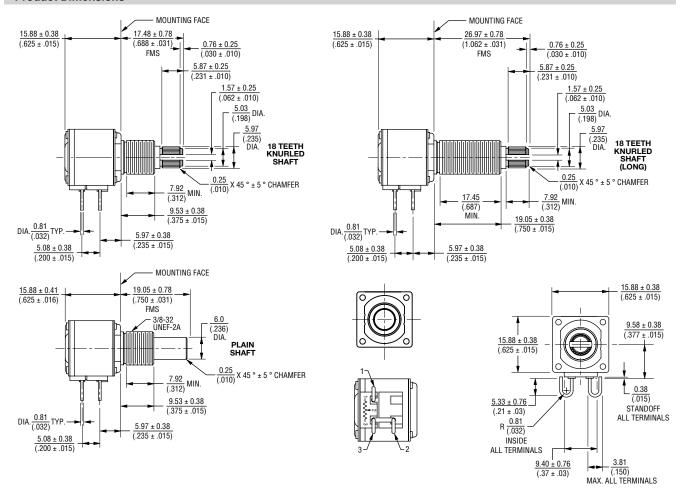
## **Applications**

- Electric guitars
- Bass guitars

# **Model 82 Vintage Premium Guitar Potentiometer**

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#### **Product Dimensions**



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

# Model 82 Vintage Premium Guitar Potentiometer

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#### **Suggested Panel Layout**

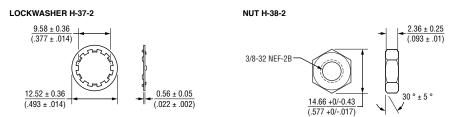


DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

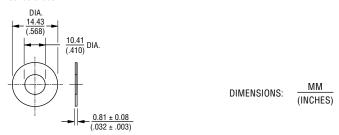
## **Date Code Description**



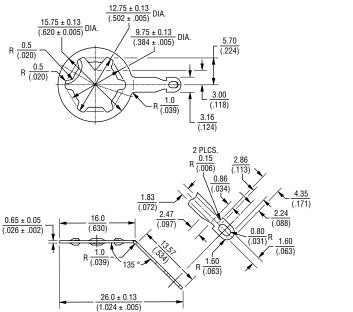
## Hardware



#### FLAT WASHER 35200-07953



### SOLDER LUG WASHER H-127



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