



Features

- Carbon element
- Rotary switch option
- Wide assortment of resistance tapers
- RoHS compliant*

Applications

- Audio/TV sets
- Car radio
- Portable electronics
- Appliances

PDA17 Series - 17 mm Rotary Potentiometer

Electrical Characteristics

Taper..... Linear, audio
 Standard Resistance Range
 1 K ohms to 1 M ohms
 Standard Resistance Tolerance.....±20 %
 Residual Resistance..... 1 % max.
 Switch Rating 1 A @ 12 VAC

Environmental Characteristics

Operating Temperature
 -10 °C to +50 °C
 Power Rating
 Linear 0.1 watt
 Audio 0.05 watt
 Maximum Operating Voltage
 Linear 200 V
 Audio 150 V
 Sliding Noise 47 mV max.

Mechanical Characteristics

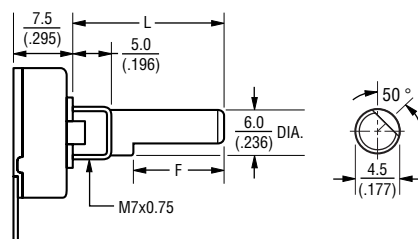
Mechanical Angle..... 260 ° ±10 °
 Rotational Torque 50 to 350 g-cm
 Stop Strength 3 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 260 °C max. within 3 seconds
 Hardware One flat washer and
 mounting nut supplied per
 potentiometer with bushing
 Switch Torque..... 150 to 450 gf-cm
 Switch Action Angle 60 ° max.
 Contact Arrangement..... SPST

PDA17 Series Dimensions

K-Shaft (Metal 18-tooth Split Knurled Shaft)

L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
B	6 (.236)	9 (.354)	12 (.472)	12 (.472)

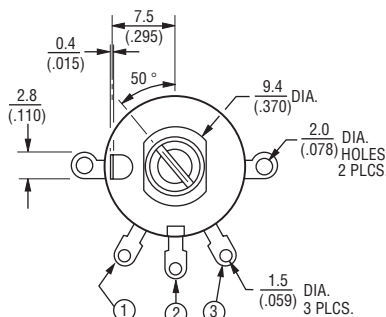
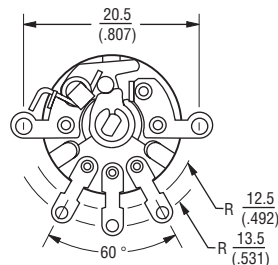
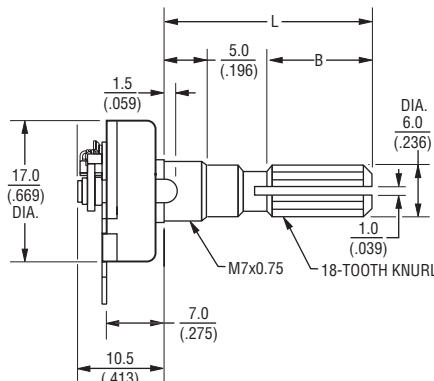
F-Shaft (Metal Flatted Type)



L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	7 (.276)	12 (.472)	12 (.472)	12 (.472)

Product Dimensions

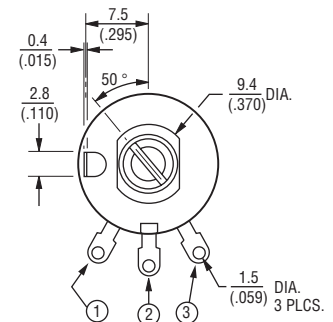
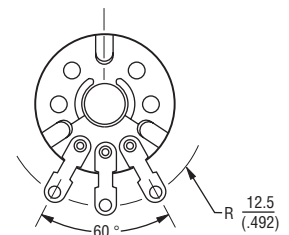
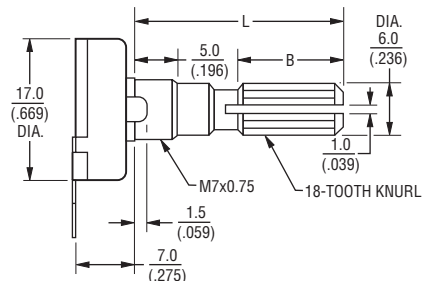
PDA17-SS



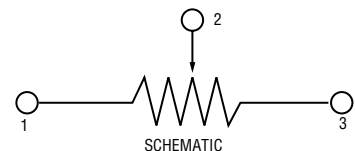
SHAFT SHOWN IN CCW POSITION

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

PDA17-SN



SHAFT SHOWN IN CCW POSITION



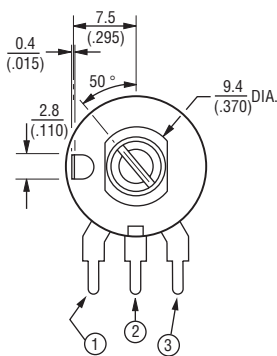
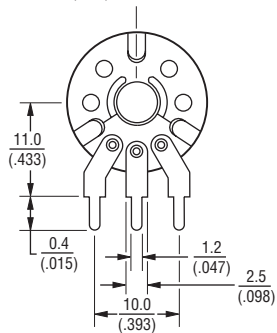
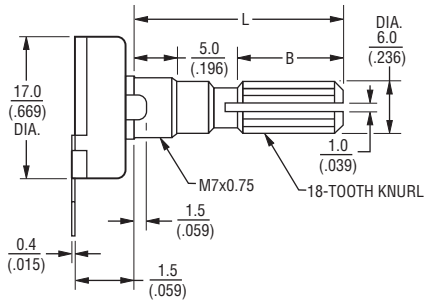
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

PDA17 Series - 17 mm Rotary Potentiometer

BOURNS®

Product Dimensions

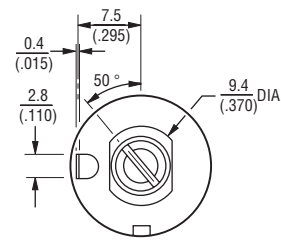
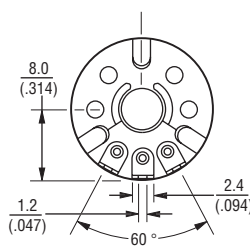
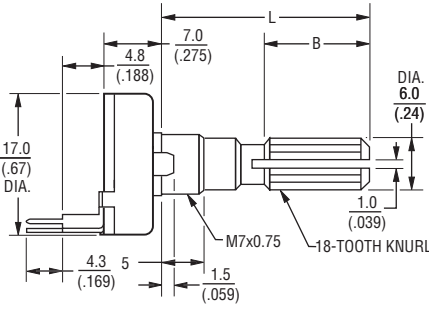
PDA17-AN



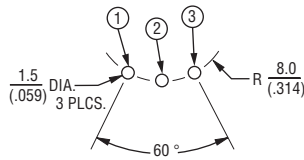
SHAFT SHOWN IN CCW POSITION

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

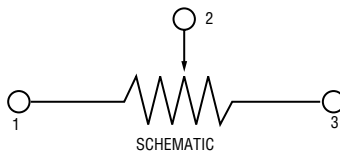
PDA17-VN



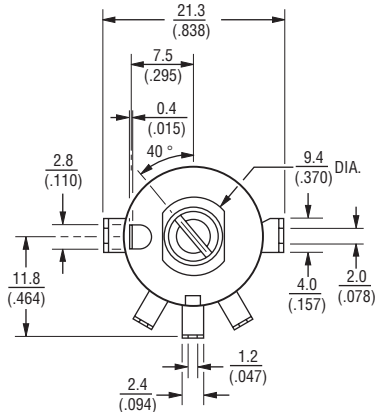
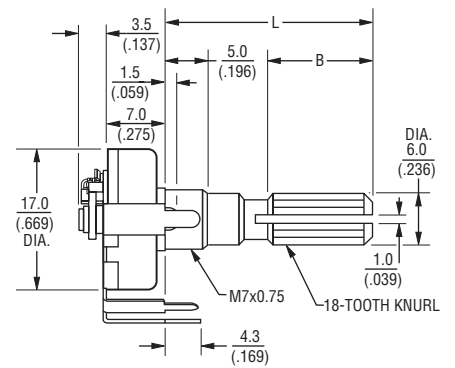
RECOMMENDED PCB LAYOUT



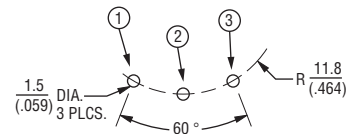
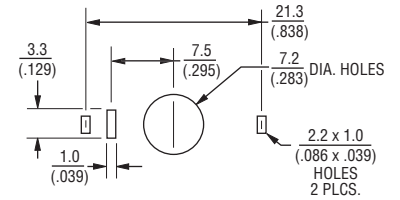
SHAFT SHOWN IN CCW POSITION



PDA17-PS25



RECOMMENDED PCB LAYOUT



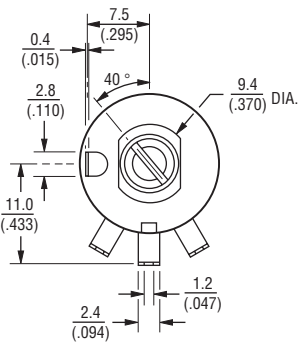
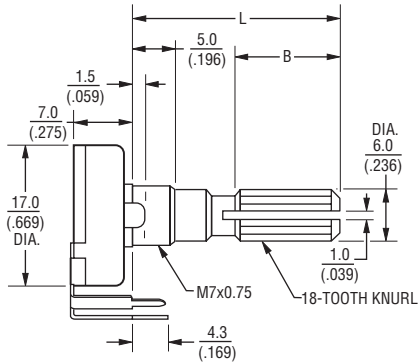
SHAFT SHOWN IN CCW POSITION

PDA17 Series - 17 mm Rotary Potentiometer

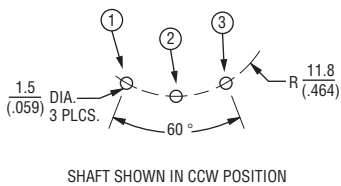
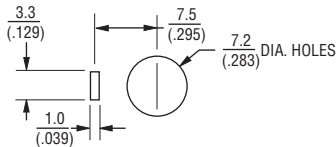
BOURNS®

Product Dimensions

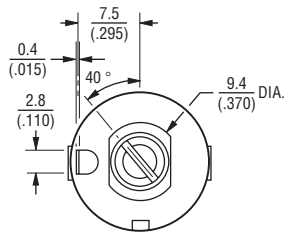
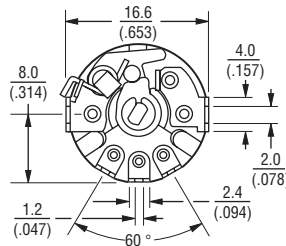
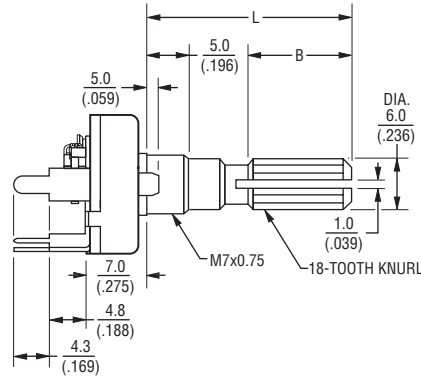
PDA17-PN25



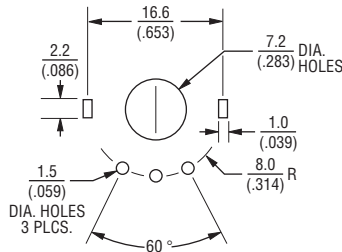
RECOMMENDED PCB LAYOUT



PDA17-VS25



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

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

How To Order

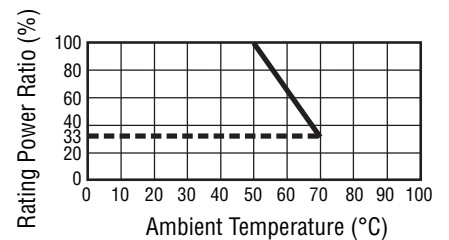
PDA17 - V N 20 - 102 A K

- Model _____
- Terminal Configuration _____
- S = Solder Lugs
 - A = PC Pins vertical/Down Facing
 - V = PC Pins horizontal/Rear Facing
 - P = PC Pins Front Facing
- Switch Option _____
- S = Rotary Switch
 - N = No Switch
- Standard Shaft Length _____
- 15 = 15 mm
 - 20 = 20 mm
 - 25 = 25 mm
 - 30 = 30 mm
- Resistance Code (See Table) _____
- Resistance Taper _____
- A = Audio Taper
 - B = Linear Taper
- Shaft Style _____
- K = Metal Knurled Shaft (18 Tooth Knurl)
 - F = Metal Flatted Shaft
- Other configurations or styles available.

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

Derating Curve



REV. 03/10

Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.