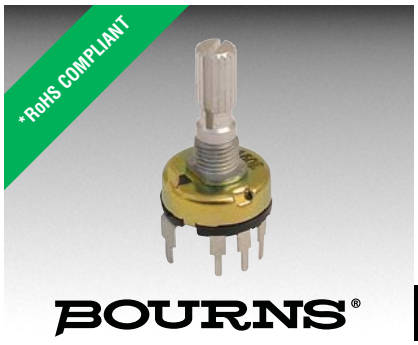


BOURNS®

Features

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

Model PDA17 is obsolete and not recommended for new designs. Model PDB18 is preferred.

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

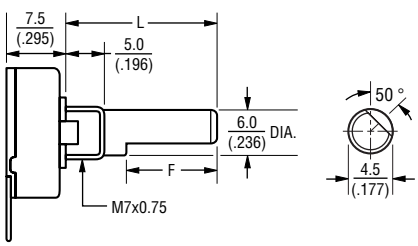
Mechanical Angle ..... 260 ° ±10 °
Rotational Torque ..... 50 to 350 g-cm
Stop Strength ..... 3 kg-cm min.
Rotational Life ..... 15,000 cycles
Soldering Condition
..... 260 °C max. within 3 seconds
Hardware ..... One flat washer and mounting nut supplied per potentiometer with bushing
Switch Torque .....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

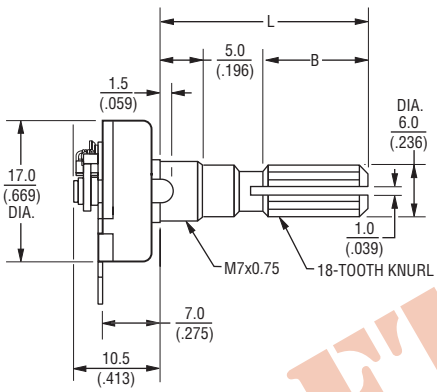
F-Shaft (Metal Flatted Type)

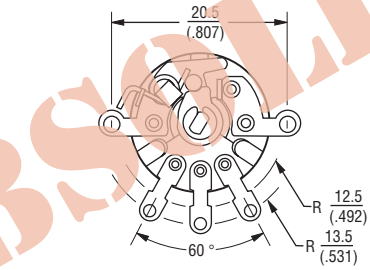


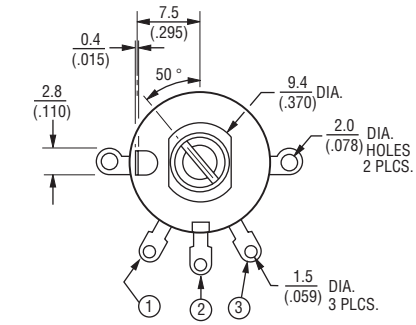
L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	7 (.276)	12 (.472)	12 (.472)	12 (.472)

Product Dimensions

PDA17-SS

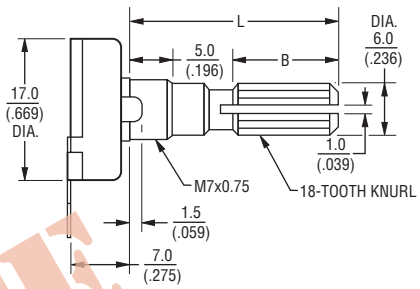


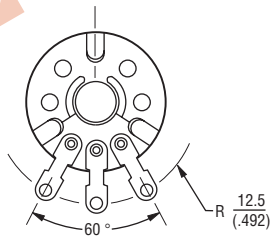


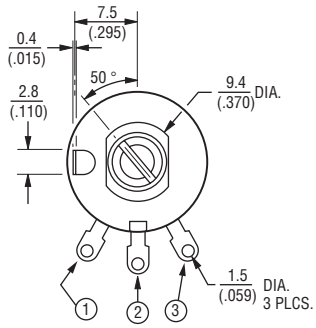


SHAFT SHOWN IN CCW POSITION

PDA17-SN

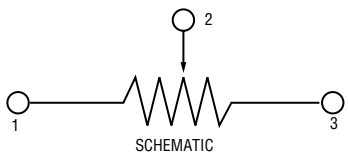






SHAFT SHOWN IN CCW POSITION

DIMENSIONS: MM (INCHES)



OBSOLETE

*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.

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Applications

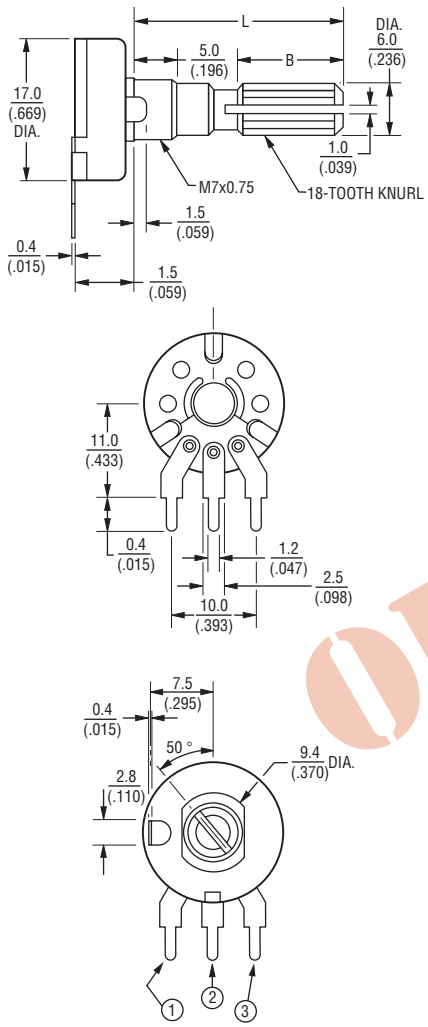
- Audio/TV sets
- Car radio
- Portable electronics
- Appliances

PDA17 Series - 17 mm Rotary Potentiometer

BOURNS®

Product Dimensions

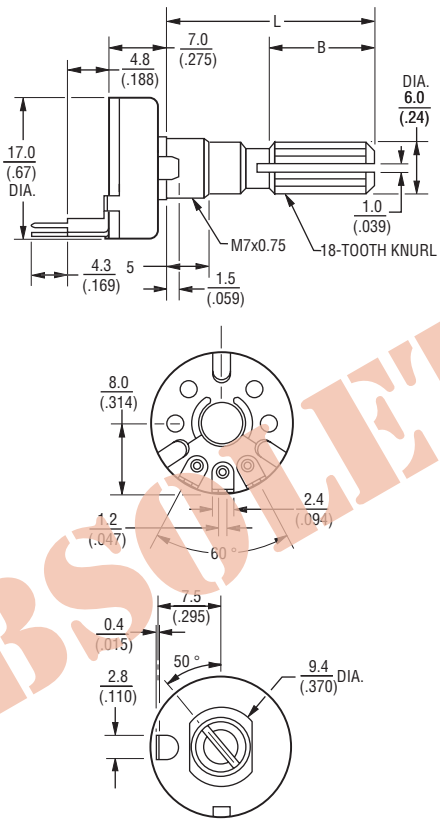
PDA17-AN



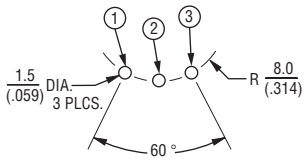
SHAFT SHOWN IN CCW POSITION

DIMENSIONS: MM (INCHES)

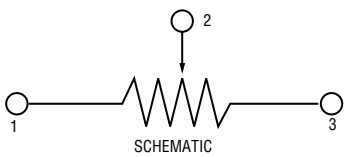
PDA17-VN



RECOMMENDED PCB LAYOUT

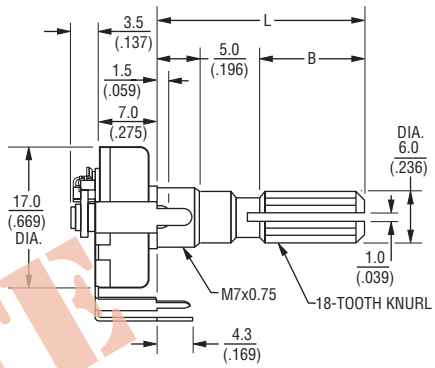


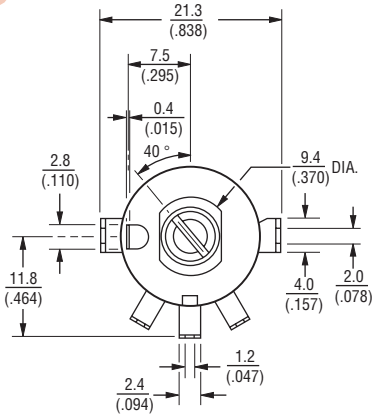
SHAFT SHOWN IN CCW POSITION



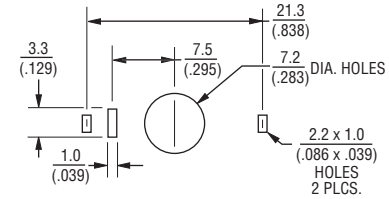
SCHEMATIC

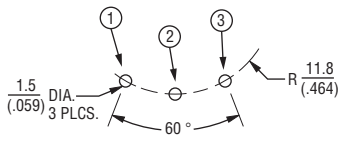
PDA17-PS25





RECOMMENDED PCB LAYOUT





SHAFT SHOWN IN CCW POSITION

OBSOLETE

Specifications are subject to change without notice.
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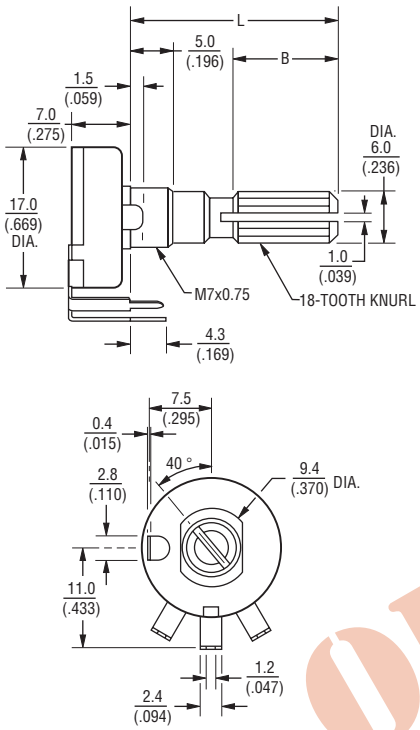
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PDA17 Series - 17 mm Rotary Potentiometer

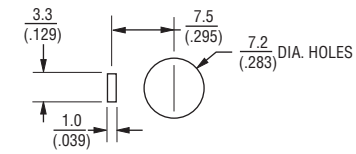
BOURNS®

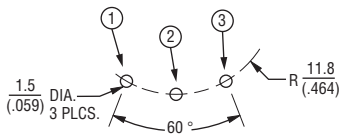
Product Dimensions

PDA17-PN25



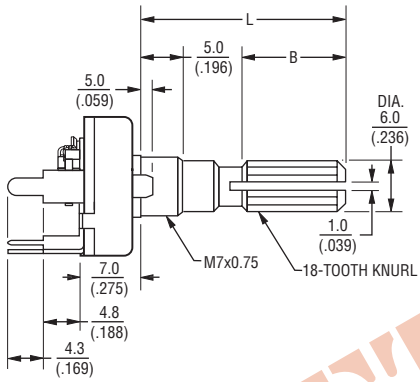
RECOMMENDED PCB LAYOUT

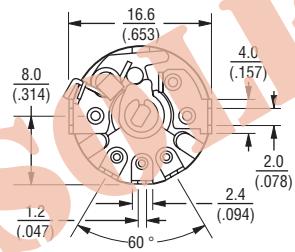


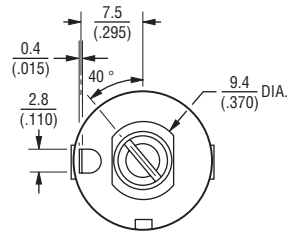


SHAFT SHOWN IN CCW POSITION

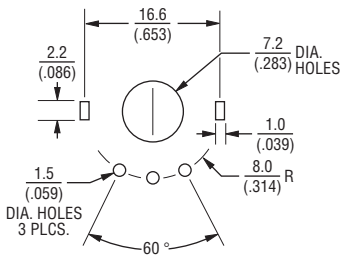
PDA17-VS25







RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

DIMENSIONS: MM / (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

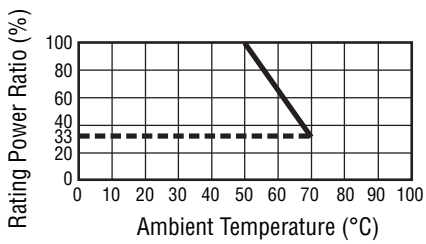
Shaft Style
- K = Metal Knurled Shaft (18 Tooth Knurl)
- F = Metal Flatted Shaft

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



OBSOLETE

REV. 10/11

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