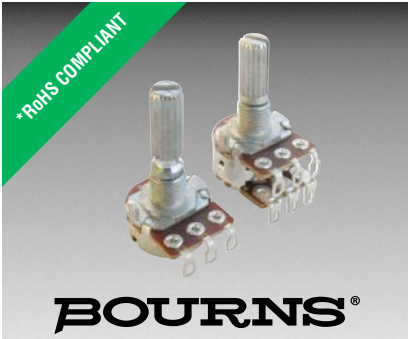




Features

- Single and dual section control
- Metal shaft styles
- Carbon element
- Center and multiple detent options
- Wide range of resistance tapers
- Plain or knurled shaft options



PDB18 Series - 17 mm Rotary Potentiometer

Electrical Characteristics

Taper..... Linear, audio
Standard Resistance Range
..... 1 K ohms to 1 M ohms
Standard Resistance Tolerance..... $\pm 20\%$
Residual Resistance..... 1 % max.

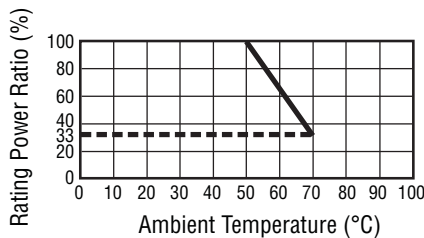
Environmental Characteristics

Operating Temperature.... -10°C to $+50^{\circ}\text{C}$
Power Rating
Linear..... 0.2 watt
Dual Section..... 0.125 watt
Audio..... 0.1 watt
Dual Section..... 0.06 watt
Maximum Operating Voltage
Linear..... 200 V
Audio..... 150 V
Sliding Noise..... 47 mV max.

Mechanical Characteristics

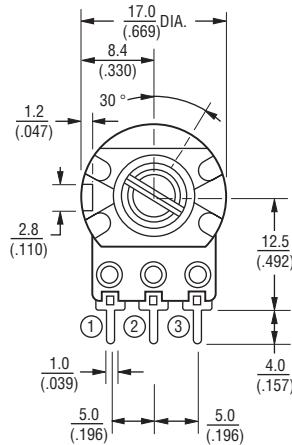
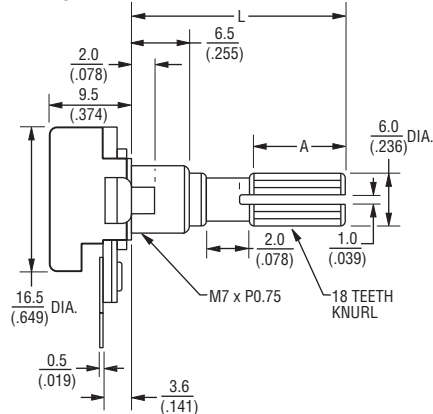
Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$
Rotational Torque..... 10 to 150 gf-cm
Detent Torque..... 150 to 500 g-cm
Stop Strength..... 5 kg-cm min.
Rotational Life..... 15,000 cycles
Soldering Condition
..... 260°C max. within 3 seconds
Hardware..... One flat washer and
mounting nut supplied per
potentiometer with bushing

Derating Curve



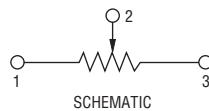
Product Dimensions

PDB181-K

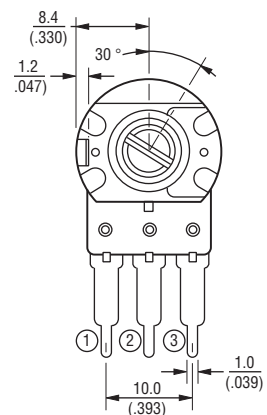
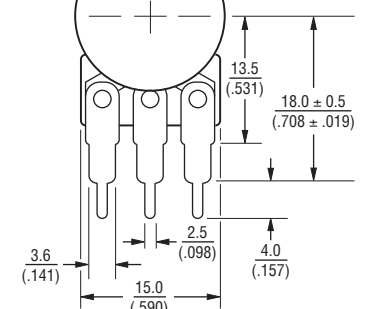
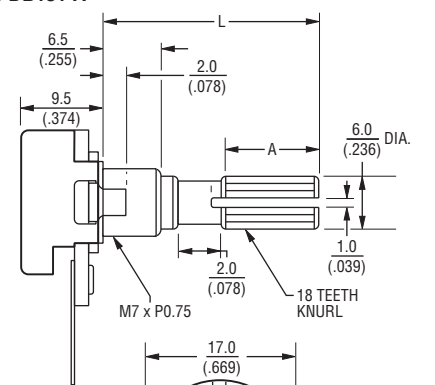


SHAFT SHOWN IN CCW POSITION

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



PDB181-A



SHAFT SHOWN IN CCW POSITION

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

- Linear, audio and reverse audio taper options
- RoHS compliant*

- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

BOURNS®

PDB181-B



PDB181-E



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

PDB181-D



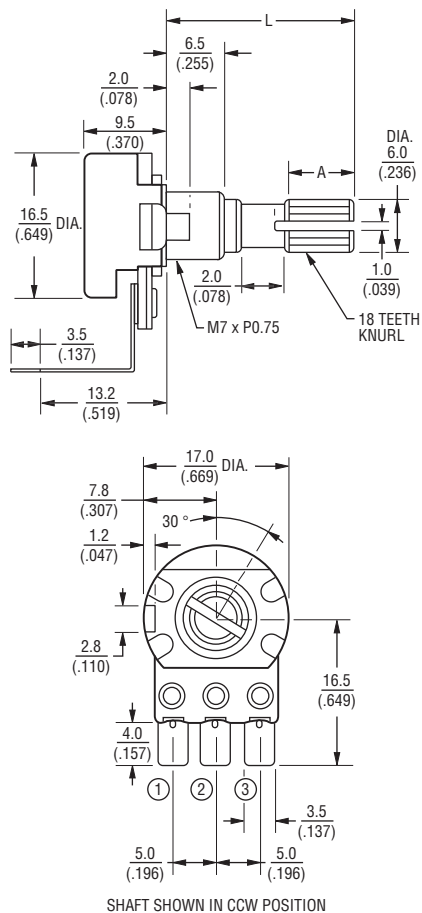
Specifications are subject to change without notice.
 ns and actual device performance may vary over time.
 ctual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

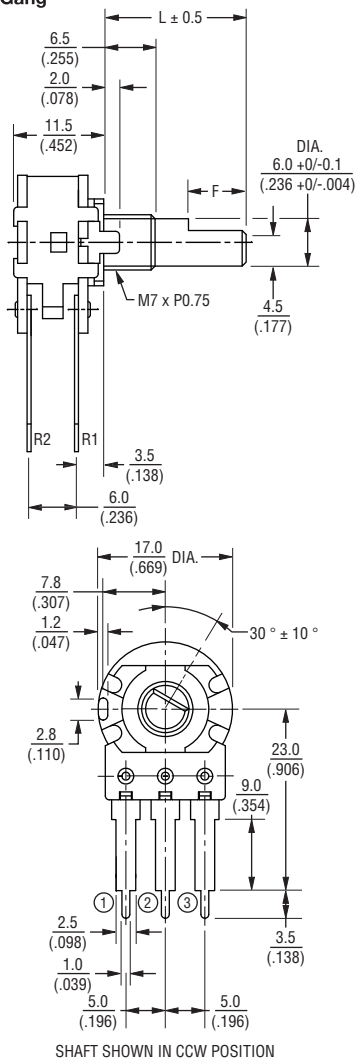
BOURNS®

Product Dimensions

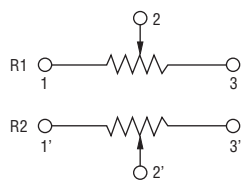
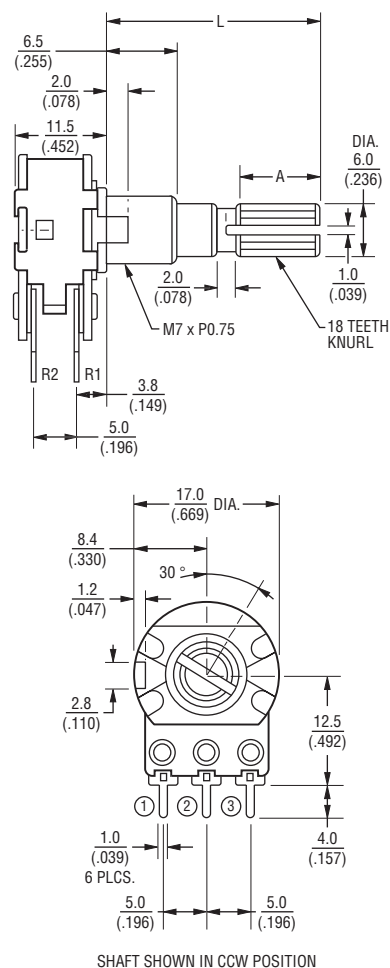
PDB181-P



PDB182-B
Dual Gang



PDB182-K
Dual Gang



SCHEMATIC

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

Specifications are subject to change without notice.

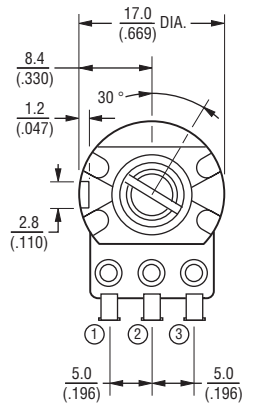
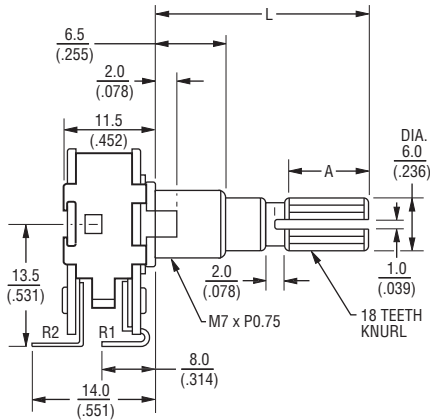
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS®

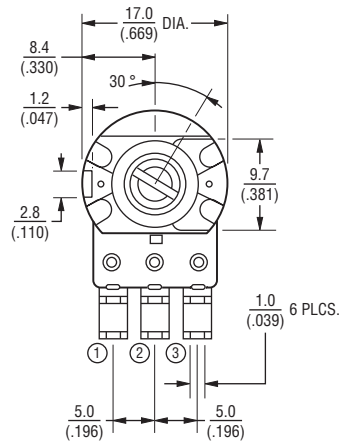
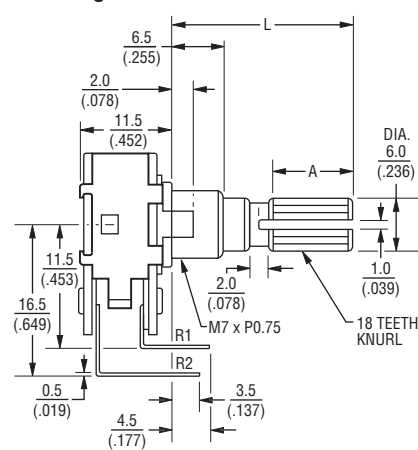
Product Dimensions

PDB182-E
Dual Gang



SHAFT SHOWN IN CCW POSITION

PDB182-D
Dual Gang



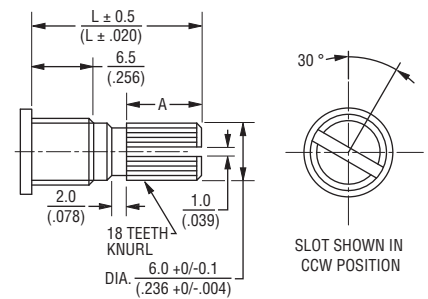
SHAFT SHOWN IN CCW POSITION

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

Shaft Styles

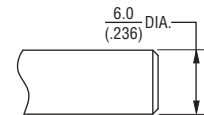
K Type

L	15 (.591)	18 (.709)	20 (.787)	25 (.984)	30 (1.181)
A	6.5 (.256)	6.5 (.256)	11.5 (.453)	14 (.551)	19 (.748)



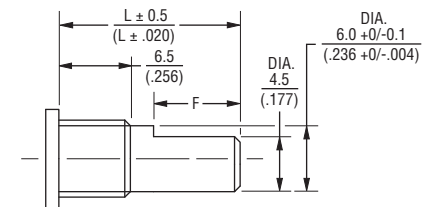
P Type

L	20 (.787)	25 (.984)	30 (1.181)
---	--------------	--------------	---------------



F Type

L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)	35 (1.378)
F	7 (.276)	12 (.472)	12 (.472)	12 (.472)	12 (.472)



Specifications are subject to change without notice.

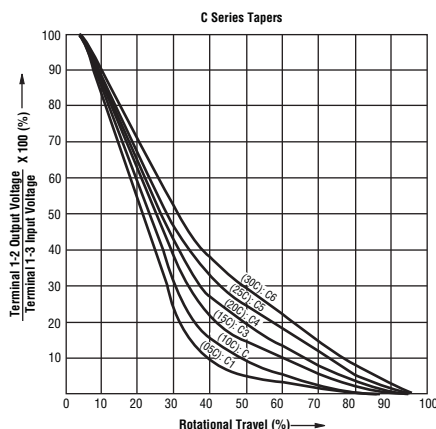
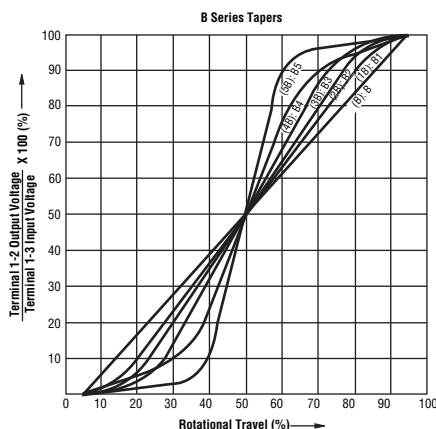
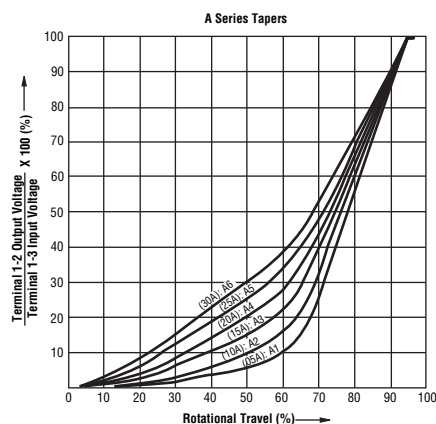
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

PDB18 Series - 17 mm Rotary Potentiometer

BOURNS®

Tapers



How To Order

PDB18 1 - K 4 25 K - 103 A1

Model _____

Number of Sections _____

- 1 = Single Section
- 2 = Dual Section

Terminal Configuration (Pin Layout) _____

(see individual drawings)

- K = PC Pins vertical/Down Facing (12.5 mm)
- A = PC Pins vertical/Down Facing (18.0 mm)
- B = PC Pins vertical/Down Facing (23.0 mm)
- E = Solder Lugs Rear Facing
- P = PC Pins Rear Facing
- D = PC Pins Front Facing

Detent Option _____

- 2 = Center Detent
- 4 = No Detents
- 5 = 10 Detent / 11 Position
- 6 = 20 Detent / 21 Position
- 7 = 30 Detent / 31 Position
- 8 = 40 Detent / 41 Position

Standard Shaft Length _____

- 15 = 15 mm
- 18 = 18 mm
- 20 = 20 mm
- 25 = 25 mm
- 30 = 30 mm

Shaft Style _____

- F = Metal Flatted Shaft
- K = Metal Knurled Type Shaft 18 Toothed Serration Type
- P = Metal Plain Shaft

Resistance Code (See Table) _____

Resistance Taper (See Taper Charts) _____

Taper Series followed by Curve Number

Other 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

REV. 03/13

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru