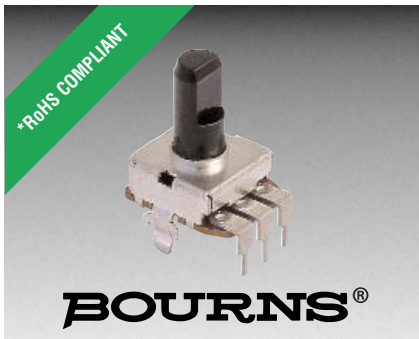




Features

- Single gang panel control
- RoHS compliant*
- Carbon element
- Center detent option
- Wide range of resistance tapers
- Insulated shaft styles
- Assortment of pin layouts

Applications

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

PDB12 Series - 12 mm Rotary Potentiometer

Electrical Characteristics

TaperLinear, audio
Standard Resistance Range
.....1 K ohms to 1 M ohms
Standard Resistance Tolerance±20 %
Residual Resistance10 ohms max.

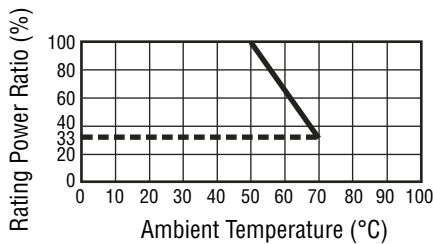
Environmental Characteristics

Operating Temperature
.....-10 °C to +50 °C
Power Rating
Linear0.08 watt
Audio0.04 watt
Maximum Operating Voltage
Linear150 V
Audio100 V
Sliding Noise47 mV max.

Mechanical Characteristics

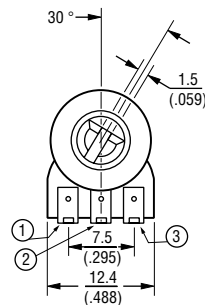
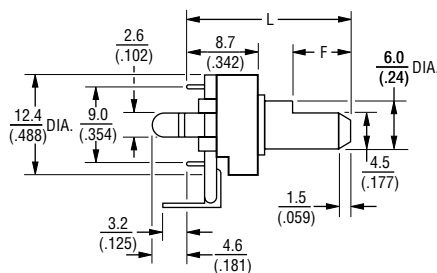
Mechanical Angle300 ° ±5 °
Rotational Torque20 to 200 g-cm
Stop Strength3 kg-cm min.
Rotational Life15,000 cycles
Soldering Condition
.....260 °C max. within 3 seconds
HardwareNo hardware supplied

Derating Curve

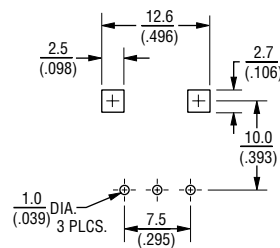


Product Dimensions

PDB12-H

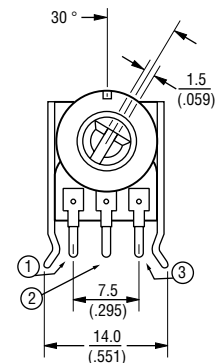
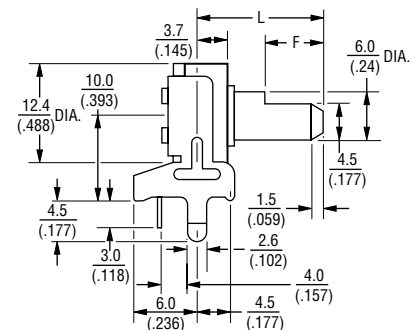


RECOMMENDED PCB LAYOUT

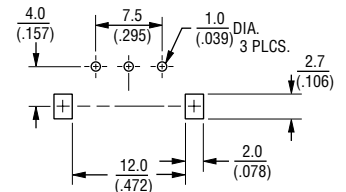


SHAFT SHOWN IN CCW POSITION

PDB12-G



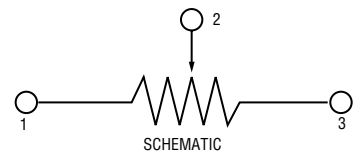
RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

PDB12 Dimensions

L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	7 (.275)	7 (.275)	12 (.472)	12 (.472)



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

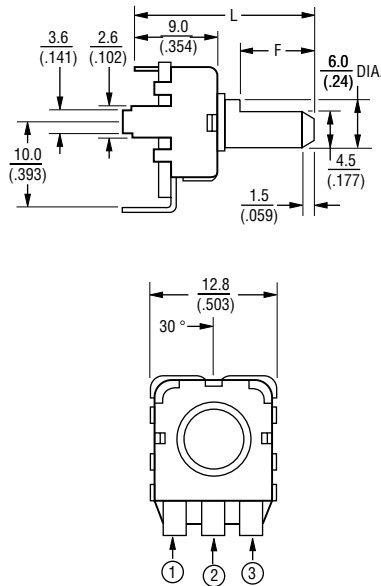
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

PDB12 Series - 12 mm Rotary Potentiometer

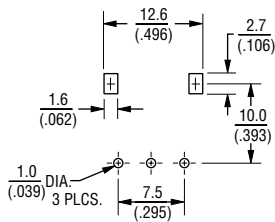
BOURNS®

Product Dimensions

PDB12-M



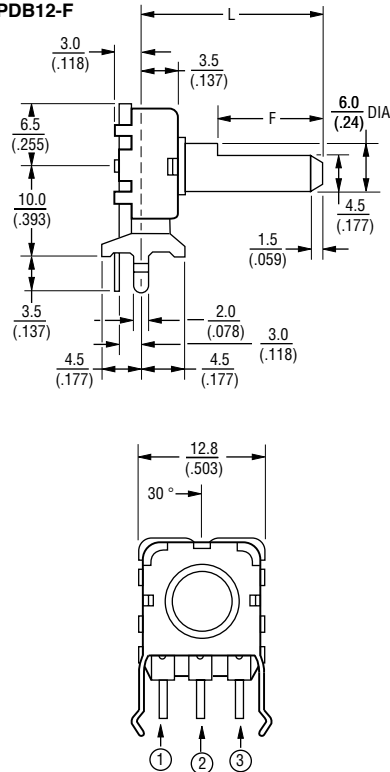
RECOMMENDED PCB LAYOUT



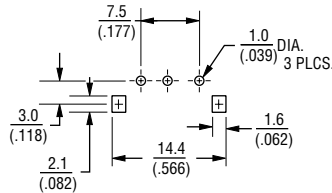
SHAFT SHOWN IN CCW POSITION

DIMENSIONS: $\frac{\text{MM}}{(\text{IN.})}$

PDB12-F



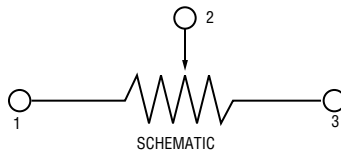
RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

PDB12 Dimensions

L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	7 (.275)	7 (.275)	12 (.472)	12 (.472)



How To Order

PDB12 - H 4 20 1 - 103 A F

Model _____
 Terminal Config. _____
 (see individual drawings)
 H = PC pins, rear facing
 snap mount
 G = PC pins, vertical/
 down facing/
 snap mount
 M = PC pins, rear facing
 F = PC pins, vertical/
 down facing/
 snap mount
 Option _____
 • 2 = Center Detent
 • 4 = No Detent
 Standard Shaft Length _____
 • 15 = 15 mm
 • 20 = 20 mm
 • 25 = 25 mm
 • 30 = 30 mm
 Number of Gangs _____
 • 1 = Single Gang
 Resistance Code (See Table) _____
 Resistance Taper _____
 • A = Audio Taper
 • B = Linear Taper
 Shaft Style _____
 • F = Flat Type Insulated Shaft
 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