



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



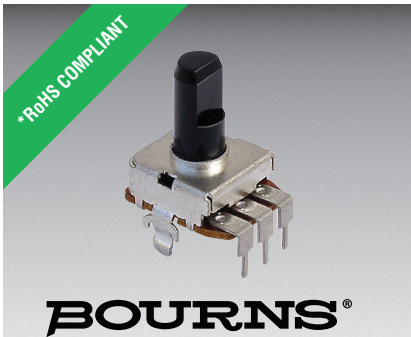
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Features

- 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

Taper..... Linear, audio
 Standard Resistance Range
 1K ohms to 1M ohms
 Standard Resistance Tolerance..... ±20 %
 Residual Resistance 10 ohms max.

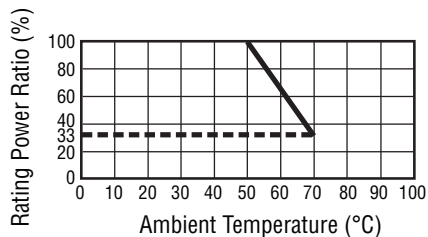
Environmental Characteristics

Power Rating
 Linear 0.08 watt
 Audio 0.04 watt
 Maximum Operating Voltage
 Linear 150 V
 Audio 100 V
 Sliding Noise 47 mV max.
 Operating Temperature... -10 °C to +70 °C

Mechanical Characteristics

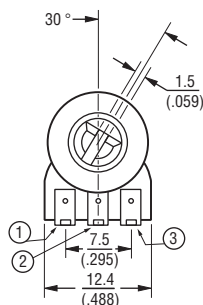
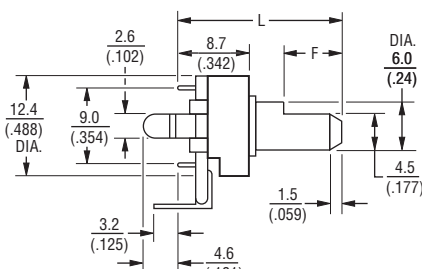
Mechanical Angle 300 ° ±5 °
 Rotational Torque 20 to 200 g-cm
 Stop Strength 3 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 300 °C max. within 3 seconds
 Hardware No hardware supplied

Derating Curve

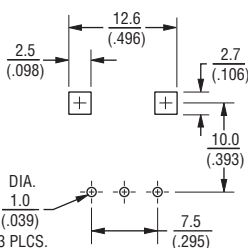


Product Dimensions

PDB12-H

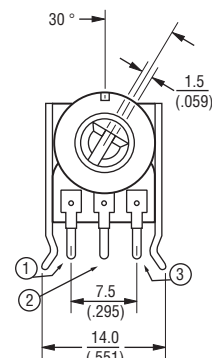
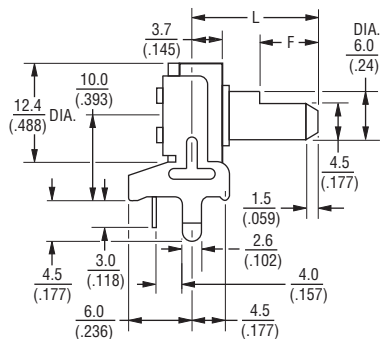


RECOMMENDED PCB LAYOUT

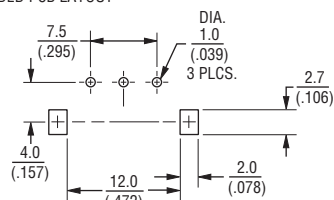


SHAFT SHOWN IN CCW POSITION

PDB12-G



RECOMMENDED PCB LAYOUT

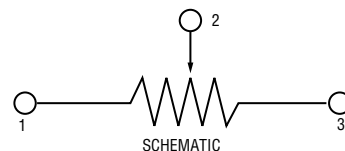


SHAFT SHOWN IN CCW POSITION

PDB12 Dimensions

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

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



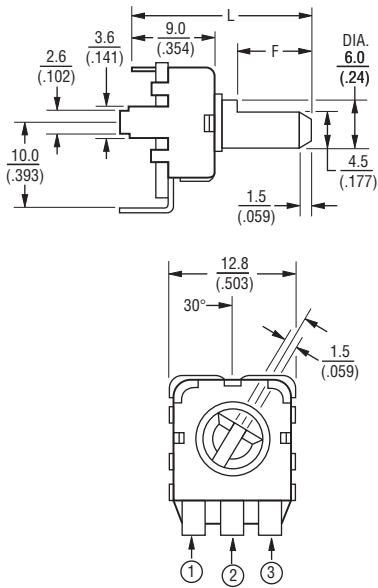
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

PDB12 Series - 12 mm Rotary Potentiometer

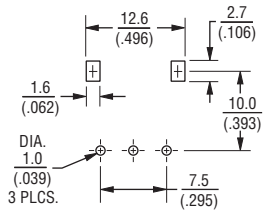
BOURNS®

Product Dimensions

PDB12-M



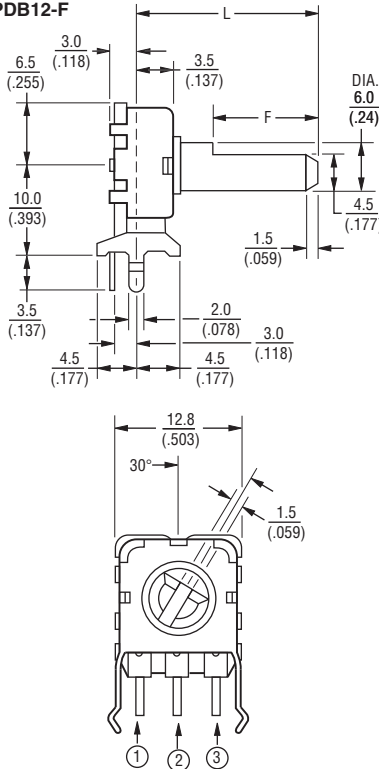
RECOMMENDED PCB LAYOUT



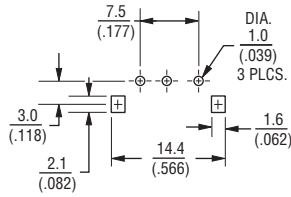
SHAFT SHOWN IN CCW POSITION

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

PDB12-F



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

How To Order

PDB12 - H 4 20 1 - 103 A F

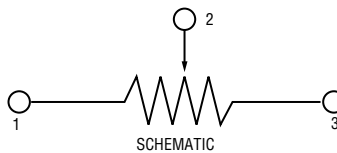
- Model
- Terminal Config. (see individual drawings)
 H = PC pins, rear facing snap mount
 G = PC pins, vertical/down facing snap mount
 M = PC pins, rear facing
 F = PC pins, vertical/down facing snap mount
- Option
 • 2 = Center Detent
 • 4 = No Detent
- Standard Shaft Length
 • 15 = 15 mm
 • 20 = 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

PDB12 Dimensions

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



REV. 09/16

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