

# **Features**

- Plastic shaft
- Low profile
- Center detent
- Audio and linear tapers
- PC-pin layout for board mount
- RoHS compliant\*

# PDB08 - 8 mm Micro Rotary Potentiometer

### **Electrical Characteristics**

TaperAudio, Linear
Standard Resistance
5k ohms to 500k ohms
Standard Resistance Tolerance±30 %
Residual Resistance 5 ohms max.
Power Rating 0.03 W
Maximum Operating Voltage50 V AC
Sliding Noise100 mV max.

### **Environmental Characteristics**

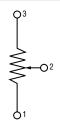
Operating Temperature Range
......-10 °C to +60 °C
Storage Temperature Range
.....-10 °C to +70 °C
Soldering Condition
Wave Soldering.....260 °C for 5 s

Manual Soldering ......350 °C for 3 s

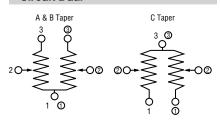
### **Mechanical Characteristics**

Mechanical Angle	200 ° ±10 ° max.
Torque	
Starting and Running	g 10 to 100 gf-cm
Detent	10 to 100 gf-cm
Stop Strength	1 kgf-cm min.
Rotational Life	10 000 cycles min

# **Circuit Single**



### **Circuit Dual**



### **Additional Information**

Click these links for more information:







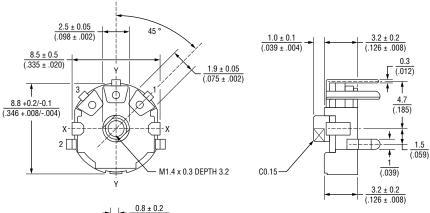


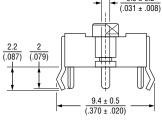






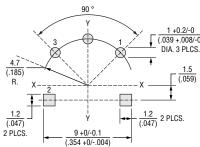
### **Product Dimensions**



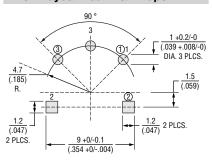


DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

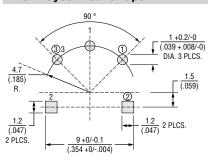
# PCB Layout Single



### **PCB Layout Dual A & B Taper**



### **PCB Layout Dual C Taper**



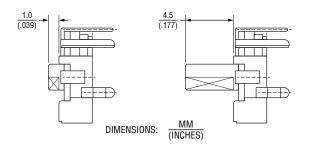


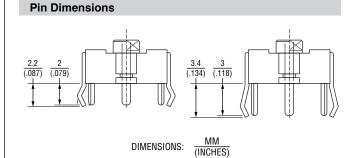
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

# PDB08 - 8 mm Micro Rotary Potentiometer

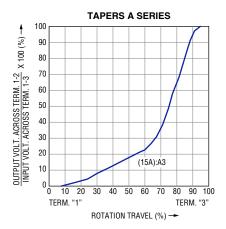
# BOURNS

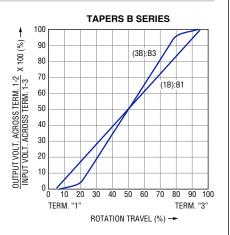
### **Shaft Dimensions**

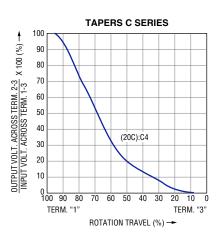




### **Tapers**







# Model Series Number of Units 1 = Single 2 = Dual Orientation P = PC-Pins Down Facing Shaft Length 1 = 1 mm (2 mm pin length) 4 = 4.5 mm (3 mm pin length) Center Detent 0 = No Detent 1 = Center Detent (single unit only) Resistance Code (see Table)

# **Standard Resistance Table**

Resistance Taper (see Taper charts)

Resistance (Ohms)	Resistance Code
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
250,000	254
500,000	504

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