



Features

- Carbon element
- Metal housing
- 15-60 mm travel
- Single and dual gang
- Center detent option
- Dust cover option
- RoHS compliant*



PTA Series - Low Profile Slide Potentiometer

Electrical Characteristics

Taper..... Linear, audio
 Standard Resistance Range
 1 K ohms to 1 M ohms
 Standard Resistance Tolerance..... $\pm 20\%$
 Residual Resistance
 500 ohms or 1 % max.
 Insulation Resistance
 Min. 100 megohms at 250 V DC

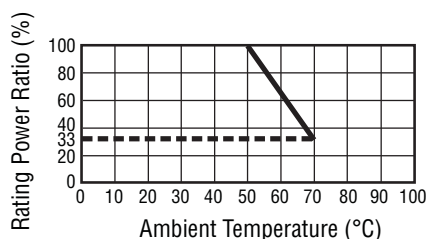
Environmental Characteristics

Operating Temperature
 -10°C to $+50^{\circ}\text{C}$
 Power Rating, Linear
 15 mm 0.05 W (0.025 W Dual Gang)
 20 mm 0.1 W (0.05 W)
 30 mm 0.2 W (0.1 W)
 45 mm 0.25 W (0.125 W)
 60 mm 0.25 W (0.125 W)
 Power Rating, Audio
 15 mm .. 0.025 W (0.015 W Dual Gang)
 20 mm 0.05 W (0.025 W)
 30 mm 0.1 W (0.05 W)
 45 mm 0.125 W (0.06 W)
 60 mm 0.125 W (0.06 W)
 Maximum Operating Voltage, Linear
 15 mm 100 V DC
 20-60 mm 200 V DC
 Maximum Operating Voltage, Audio
 15 mm 50 V DC
 20-60 mm 150 V DC
 Withstand Voltage, Audio
 1 Min. at 300 V AC
 Sliding Noise 100 mV maximum
 Tracking Error 3 dB at -40 to 0 dB

Mechanical Characteristics

Operating Force 30 to 250 g-cm
 Stop Strength 5 kg-cm min.
 Sliding Life 15,000 cycles
 Soldering Condition
 300°C max. within 3 seconds
 Travel 15, 20, 30, 45, 60 mm

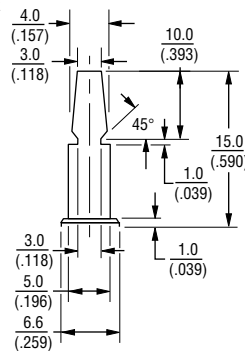
Derating Curve



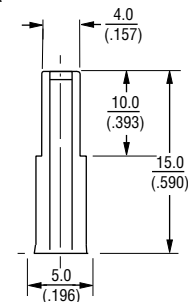
Lever Style & Product Dimensions

Actuator Styles

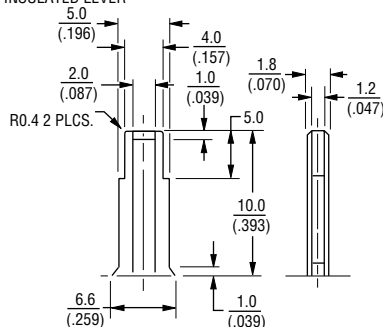
DP METAL LEVER



CP METAL LEVER



CI INSULATED LEVER



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

How To Order

PTA 15 4 3 - 2 0 10 DP B 203

Model
 Stroke Length
 • 15 = 15 mm
 • 20 = 20 mm
 • 30 = 30 mm
 • 45 = 45 mm
 • 60 = 60 mm
 Dust Cover Option
 • 4 = No Dust Cover
 • 5 = Rubber Dust Cover**
 No. of Gangs
 • 3 = Single Gang
 • 4 = Dual Gang
 Pin Style
 • 2 = PC Pins Down Facing
 Center Detent Option
 • 0 = No Detent
 • 2 = Center Detent
 Standard Lever Length (See Table)
 • 10 = 10 mm (CI Lever)
 • 15 = 15 mm (DP, CP and CI)
 Lever Style
 • DP = Metal Lever (Refer to Drawing)
 • CP = Metal Lever (Refer to Drawing)
 • CI = Insulated Lever (Refer to Drawing)
 Resistance Taper
 • A = Audio Taper
 • B = Linear Taper
 Resistance Code (See Table)

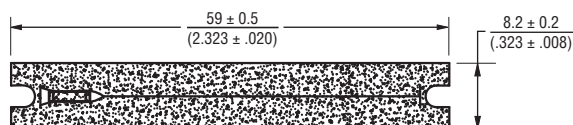
Other styles available.

** Part numbers with dust covers must be mounted with screws to a panel to prevent issues with the dust cover during usage.

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 |

Optional Dust Cover



NOTE: DUST COVER HAS ADHESIVE BACK.

$$T = \frac{0.3 \pm 0.1}{(.0118 \pm .004)}$$

*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.

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Users should verify actual device performance in their specific applications.

Applications

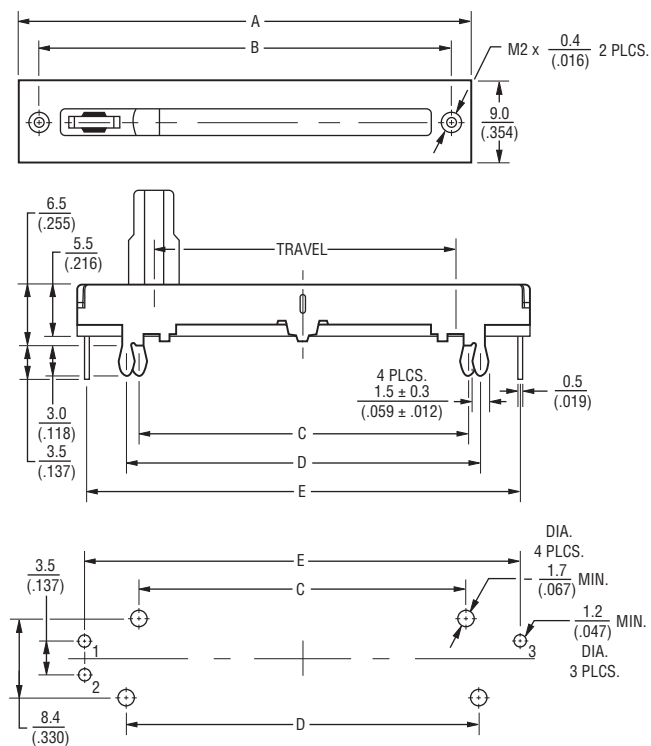
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PTA Series - Low Profile Slide Potentiometer

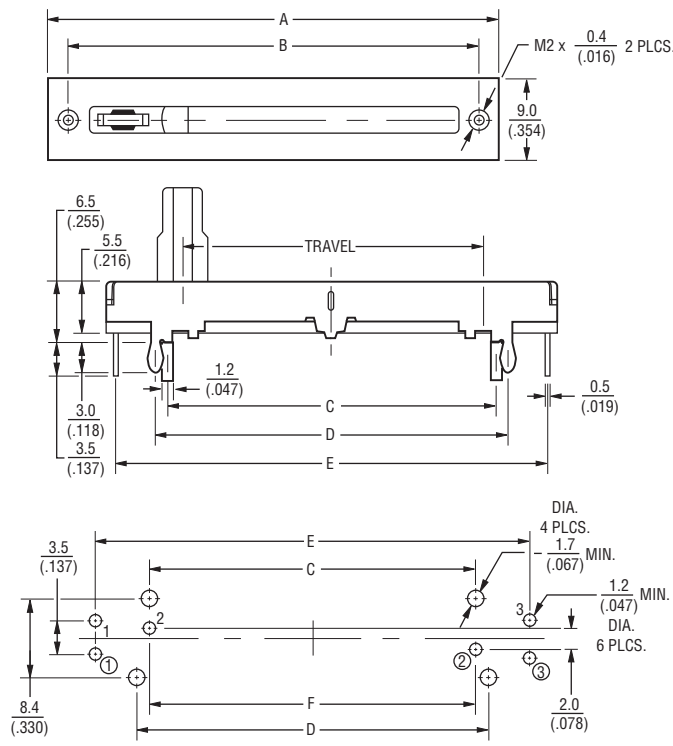
BOURNS®

Product Dimensions

PTAxx43



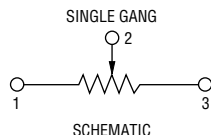
PTAxx44



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

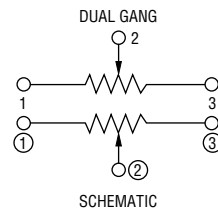
Single Gang Dimensions

| Model | A | B | C | D | E | Travel |
|---------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|
| PTA1543 | $\frac{30}{(3.18)}$ | $\frac{26}{(1.02)}$ | $\frac{17.8}{(.700)}$ | $\frac{20.2}{(.795)}$ | $\frac{28.5}{(1.12)}$ | $\frac{15}{(.59)}$ |
| PTA2043 | $\frac{35}{(1.37)}$ | $\frac{31}{(1.22)}$ | $\frac{22.8}{(.897)}$ | $\frac{25.2}{(.992)}$ | $\frac{33}{(1.29)}$ | $\frac{20}{(.787)}$ |
| PTA3043 | $\frac{45}{(1.77)}$ | $\frac{41}{(1.61)}$ | $\frac{32.8}{(1.29)}$ | $\frac{35.2}{(1.38)}$ | $\frac{43.5}{(1.71)}$ | $\frac{30}{(1.18)}$ |
| PTA4543 | $\frac{60}{(2.36)}$ | $\frac{56}{(2.20)}$ | $\frac{47.8}{(1.88)}$ | $\frac{50.2}{(1.97)}$ | $\frac{58.5}{(2.30)}$ | $\frac{45}{(1.77)}$ |
| PTA6043 | $\frac{75}{(2.95)}$ | $\frac{71}{(2.79)}$ | $\frac{62.8}{(2.47)}$ | $\frac{65.2}{(2.56)}$ | $\frac{73.5}{(2.89)}$ | $\frac{60}{(2.36)}$ |



Dual Gang Dimensions

| Model | A | B | C | D | E | F | Travel |
|---------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|
| PTA1544 | $\frac{30}{(3.18)}$ | $\frac{26}{(1.02)}$ | $\frac{17.8}{(.700)}$ | $\frac{20.2}{(.795)}$ | $\frac{28.5}{(1.12)}$ | $\frac{18}{(.708)}$ | $\frac{15}{(.59)}$ |
| PTA2044 | $\frac{35}{(1.37)}$ | $\frac{31}{(1.22)}$ | $\frac{22.8}{(.897)}$ | $\frac{25.2}{(.992)}$ | $\frac{33}{(1.29)}$ | $\frac{23}{(.905)}$ | $\frac{20}{(.787)}$ |
| PTA3044 | $\frac{45}{(1.77)}$ | $\frac{41}{(1.61)}$ | $\frac{32.8}{(1.29)}$ | $\frac{35.2}{(1.38)}$ | $\frac{43.5}{(1.71)}$ | $\frac{33}{(1.29)}$ | $\frac{30}{(1.18)}$ |
| PTA4544 | $\frac{60}{(2.36)}$ | $\frac{56}{(2.20)}$ | $\frac{47.8}{(1.88)}$ | $\frac{50.2}{(1.97)}$ | $\frac{58.5}{(2.30)}$ | $\frac{48}{(1.88)}$ | $\frac{45}{(1.77)}$ |
| PTA6044 | $\frac{75}{(2.95)}$ | $\frac{71}{(2.79)}$ | $\frac{62.8}{(2.47)}$ | $\frac{65.2}{(2.56)}$ | $\frac{73.5}{(2.89)}$ | $\frac{63}{(2.48)}$ | $\frac{60}{(2.36)}$ |



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