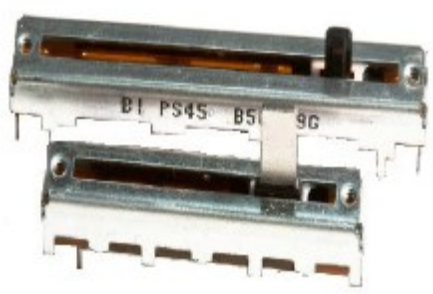
# Slide Potentiometer

## Model PSxx




**Features:**

- 100,000 cycle life
- Metal or plastic shaft options
- With/without dust cover
- RoHS compliant

## Model Styles Available

| | |
|---|---|
| Single Gang | PSxx-1 |
| Dual Gang | PSxx-2 |

## Electrical

| | |
|---|---|
| Resistance Range | 500Ω - 1MΩ |
| Standard Resistance Tolerance | ±20%<br>±30% (500Ω and 1MΩ) |
| Resistance Tapers | A, B (single gang: 1B; dual gang: 3B), C |
| Residual Resistance | Terminals 1 to 2: ≤10Ω<br>Terminals 2 to 3: ≤30Ω |
| Input Voltage, Maximum | Linear B Tapers: 15mm :100VAC; 20mm, 30mm, 45mm, 60mm:200VAC<br>Other Tapers: 15mm: 50VAC; 20mm, 30mm 45mm, 60mm: 150VAC |
| Power Rating, Watts (Single Unit/Dual Unit) | Linear B Tapers: 15mm: 0.05W/0.025W; 20mm: 0.1W/0.05W; 30mm: 0.2W/0.1W; 45mm: 0.25W/0.125W; 60mm 0.2W/0.2W<br><br>Other Tapers: 15mm: 0.025W/0.012W; 20mm: 0.05W/0.025W; 30mm 0.1W/0.05W; 45mm: 0.125W/0.06W; 60mm 0.1W/0.1W |
| Dielectric Strength | 300VAC, 1 Minute |
| Insulation Resistance, Minimum | 10MΩ at 250VDC, 1 Minute |
| Sliding Noise | ≤100mV |
| Gang Error | ±3dB (-40dB to 0 dB) |

## Environmental

| | |
|---|---|
| Operating Temperature | -10°C to +70°C |



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## Mechanical

| | |
|---|---|
| Static Stop Strength, Minimum | 5.0 Kgf.cm (from the base level to a point of 2mm) |
| Operating Force | 10gf to 100gf |
| Detent Force (center click) | 50gf-200gf |
| Lever Wobble, Maximum | 2(2xL)/20mm (L = Lever length) |
| Lever Push-Pull Strength, Minimum | 3.0Kgf for 10 seconds |

## Durability

| | |
|---|---|
| Sliding Life | 100,000 cycles |

## Ordering Information

**PS 30 - 1 0 P C 1 B R 100K D**

**Travel (mm)**
15, 20, 30, 45, 60

**Gangs**
1 = Single
2 = Dual

**Detent**
0 = Without
1 = Center

**Lever Material**
P = Plastic
M = Metal

**Lever Type**
See Page 5 & 6

**Dust Cover**
Blank = None
D = Plastic
R = Black Felt

**Total Resistance**
See Below

**Tapers**
A = Audio (15A)
B = Linear (3B) Dual Gang
B = Linear (1B) Single Gang
C = Reverse Audio (15C)

**Lever Length**
See Page 5 & 6

## Standard Resistance Values, ohms

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 1K | 2K | 5K | 10K | 20K | 50K | 100K | 200K | 500K | 1MEG |



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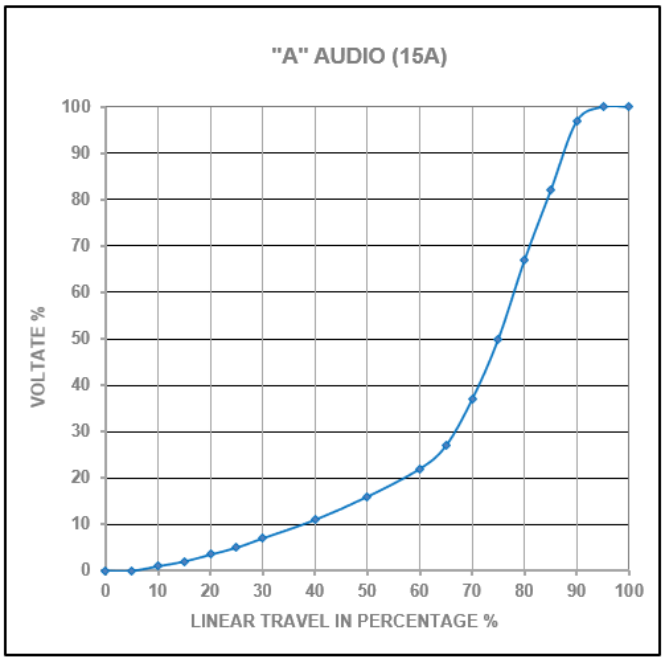
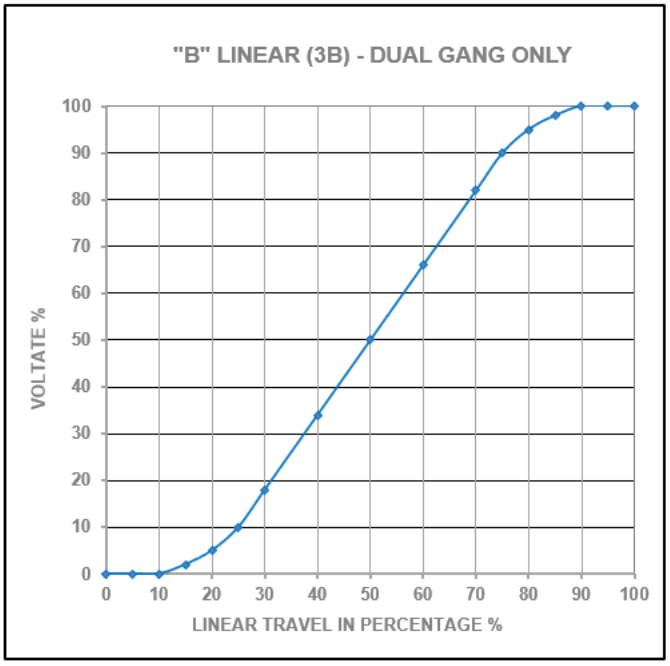
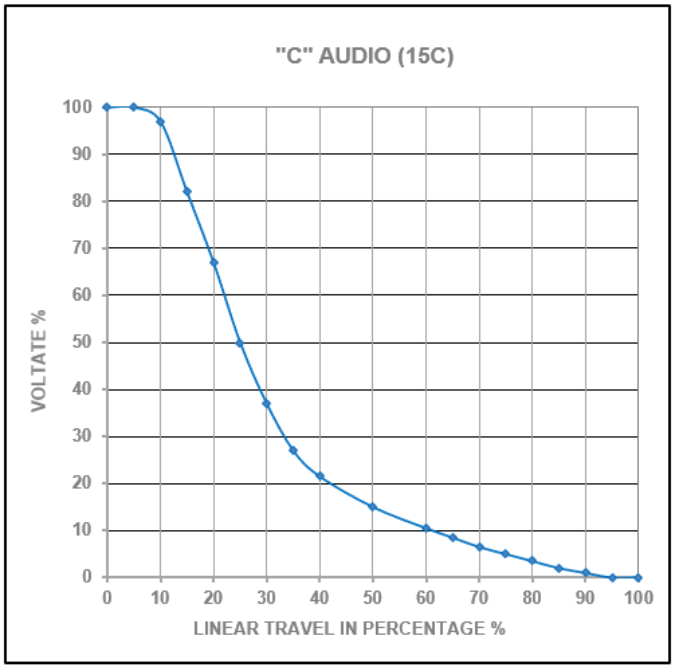
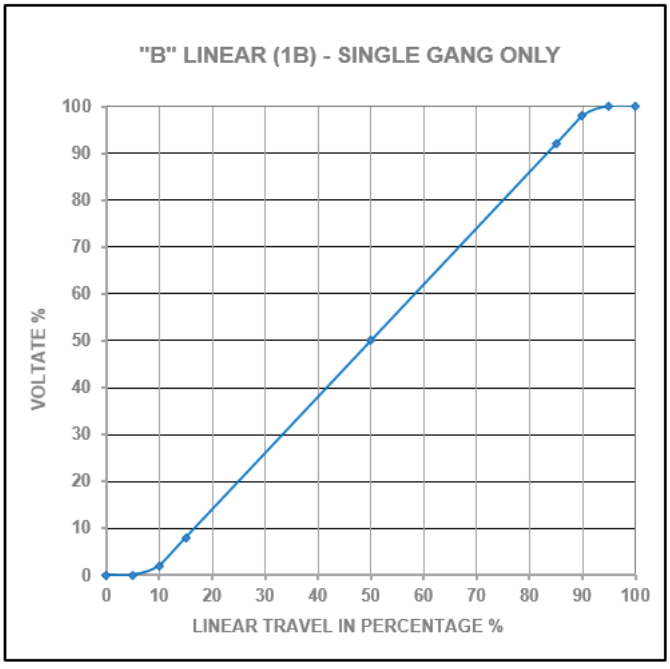
## Tapers







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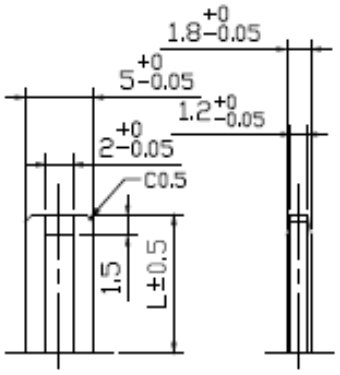
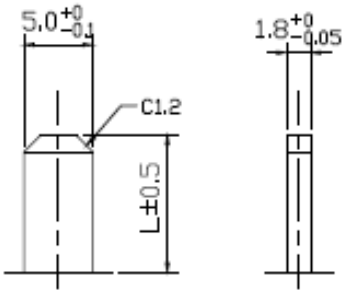
## Plastic Lever Options

### A-Type *



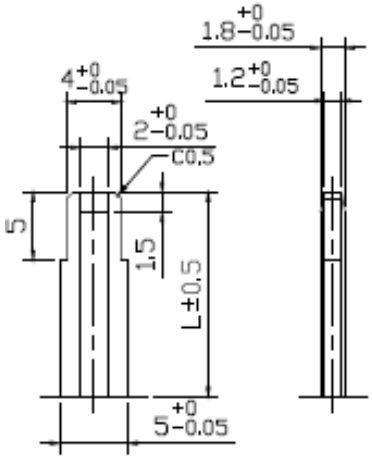

| L | 5 | 8 | 10 |
|---|---|---|---|
| CODE | 1 | 2 | 3 |

### B-Type



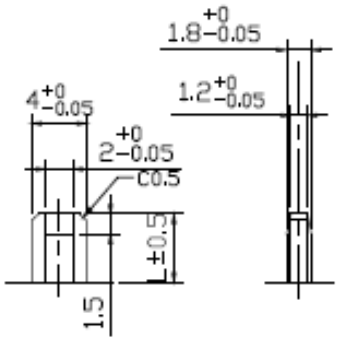

| L | 10 |
|---|---|
| CODE | 1 |

### C-Type




| L | 10 | 15 | 20 |
|---|---|---|---|
| CODE | 1 | 3 | 5 |

### D-Type *




| L | 5 |
|---|---|
| CODE | 1 |

*** Dust Cover option not offered for levers <10mm length**

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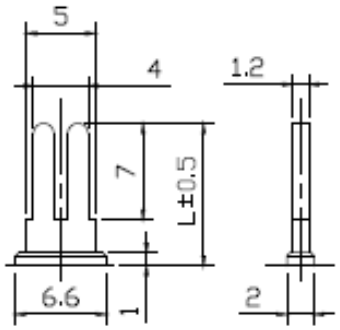
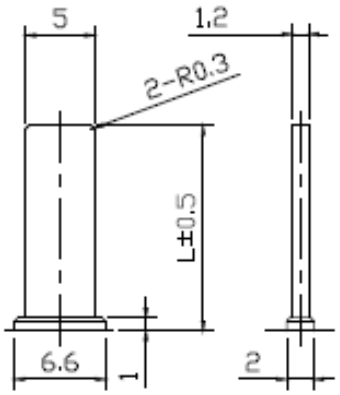
## Metal Lever Options

### A-Type



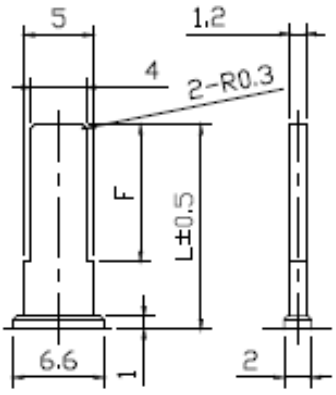

| L | 10.4 |
|---|---|
| CODE | 1 |

### B-Type



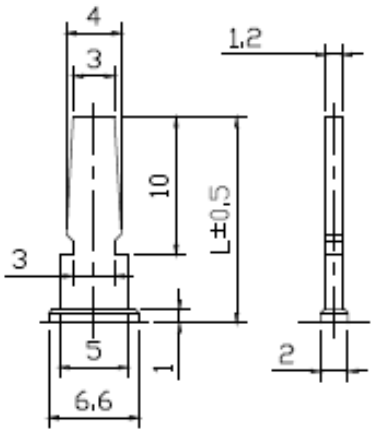

| L | 10 |
|---|---|
| CODE | 3 |

### C-Type




| L | 10 | 15 | 17.3 | 20 | 25 |
|---|---|---|---|---|---|
| F | 7 | 10 | 10 | 10 | 10 |
| CODE | 1 | 2 | 3 | 4 | 5 |

### D-Type




| L | 15 | 20 | 25 |
|---|---|---|---|
| CODE | 1 | 2 | 3 |

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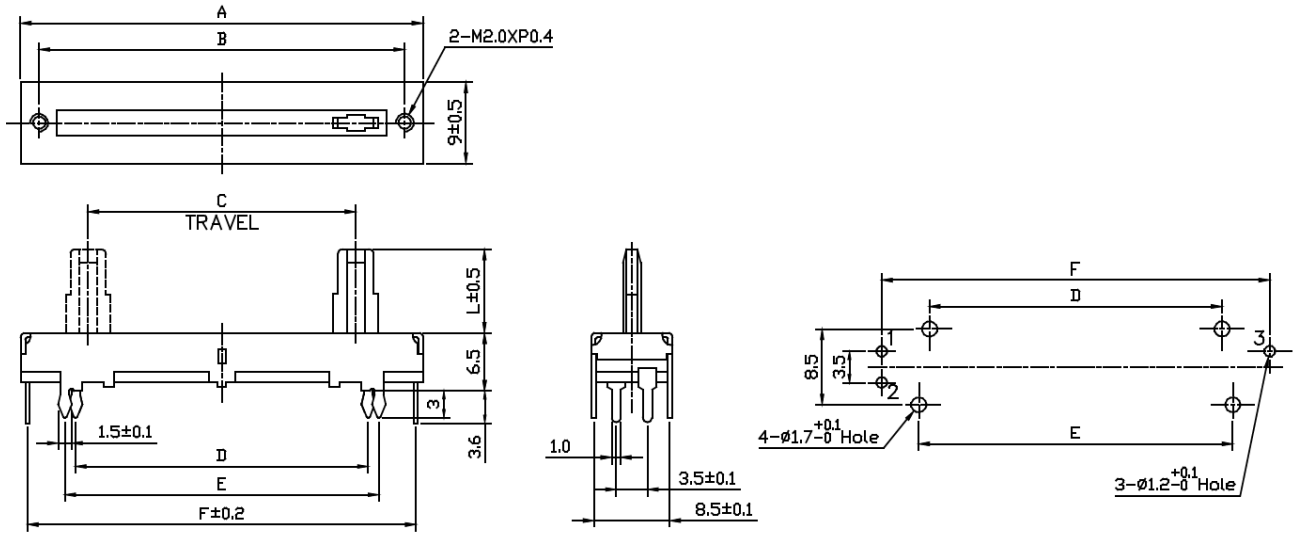
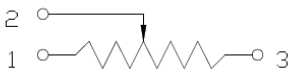
## Outline Drawing—PSxx-1




| MODEL | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| PS15-1 | 30 | 26 | 15 | 17.8 | 20.2 | 28.8 |
| PS20-1 | 35 | 31 | 20 | 22.8 | 25.2 | 33.8 |
| PS30-1 | 45 | 41 | 30 | 32.8 | 35.2 | 43.8 |
| PS45-1 | 60 | 56 | 45 | 47.8 | 50.2 | 58.8 |
| PS60-1 | 75 | 71 | 60 | 62.8 | 65.2 | 73.8 |

## Circuit Diagram

**PSxx-1 Single Gang**







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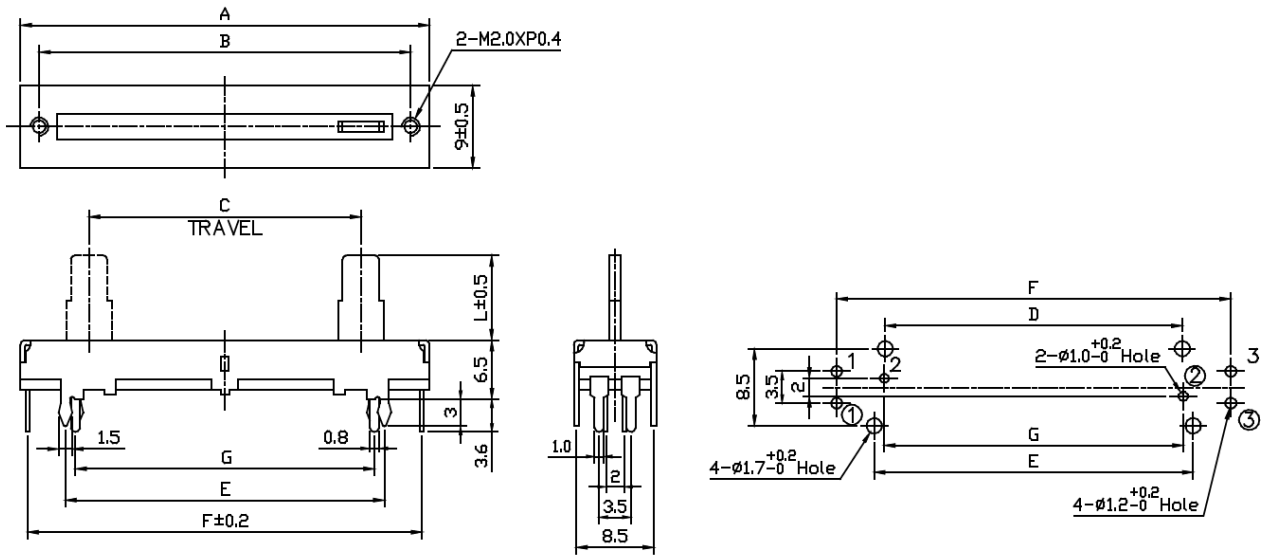
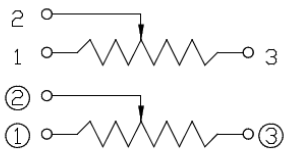
## Outline Drawing—PSxx-2




| MODEL | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| PS15-2 | 30 | 26 | 15 | 17.8 | 20.2 | 28.8 | 18 |
| PS20-2 | 35 | 31 | 20 | 22.8 | 25.2 | 33.8 | 23 |
| PS30-2 | 45 | 41 | 30 | 32.8 | 35.2 | 43.8 | 33 |
| PS45-2 | 60 | 56 | 45 | 47.8 | 50.2 | 58.8 | 48 |
| PS60-2 | 75 | 71 | 60 | 62.8 | 65.2 | 73.8 | 63 |

## Circuit Diagram

### PSxx-2 Dual Gang







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