

Spindle Operated Potentiometers



Type 23 Series

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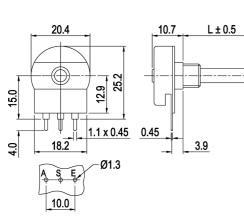


A popular range of 20mm control potentiometers, the type 23 series can be tailored to suit more specific requirements. The potentiometers are available with printed carbon resistance element, choice of bush lengths in metal or plastic and insulated shafts up to 50mm in length. In addition, approved mains and low current switches are available as standard options.

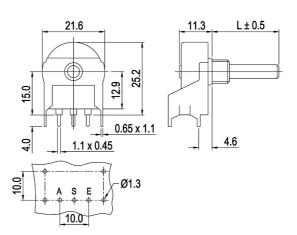
Key Features

- Versatile design can be customised to suit your requirements
- 0.4 Watt at 40°C
- Die Cast Metal Bush Available
- Insulated Bush Available
- Insulated Shafts up to 50mm
- Eyelet or PC Terminations
- Rugged Construction
- Mounting Bracket
- Audio Laws Available
- Dual Gang and Dual Concentric Styles

Dimensions Type 23



Type 24



Literature No. 1773115 Issued: 07-07 Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

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Characteristics -

| Resistance Range (Law): | 1K to 1M (Linear) | | | | | |
|----------------------------|--|--|--|--|--|--|
| | 4K7 to 470K (Non Linear) | | | | | |
| Resistance Values: | 1, 2.2 and 4.7 per decade | | | | | |
| Resistance Tolerance: | ± 20% (± 10% by selection) | | | | | |
| Rated Dissipation at 40°C: | 0.4W (Linear), 0.2W (Non Linear) | | | | | |
| Limiting Element Voltage: | 500V DC or AC RMS | | | | | |
| Electrical Rotation: | 267° without switch, 232° with switch | | | | | |
| Terminal Resistance: | 5 Ohms maximum | | | | | |
| Noise (ENR): | 2% maximum (Linear), 3% maximum (Non Linear) | | | | | |
| Insulation Resistance: | 4G minimum | | | | | |
| Voltage Proof: | 1000 V AC peak | | | | | |

Characteristics -

Mechanical

| Operating Torque: | 15 mNm maximum |
|----------------------|-----------------|
| Mechanical Rotation: | 300° |
| End Stop Torque: | 800 mNm maximum |

Characteristics -Environmental

| Limits of Resistance Change: | 15% (After 1000 hours endurance) | | | | | |
|--|---|--|--|--|--|--|
| Operating Temperature Range: | -25°C to +70°C | | | | | |
| Temperature Characteristics of Resistance: | 5% (-55°C to 125°C) | | | | | |
| Bump Severity: | 390m/s ² , 4000 Bumps | | | | | |
| Vibration Severity: | 10 - 500 Hz, 0.75mm or 98m/s ² | | | | | |
| Climatic Category: | 8 days @ 36°C 82% RH R < 15% | | | | | |
| Mechanical Endurance: | 15000 Operations (minimum) | | | | | |

DIY

Design

The 23 Series can be customised to suit your individual requirements with features such as detent action, track centre tap etc.

Please call our technical sales team to discuss variations on these 20mm diameter devices.





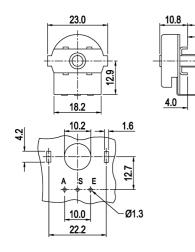
Type 23 Series

L ± 0.5

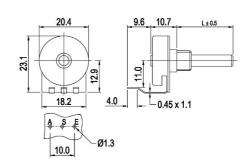
-0.45 x 1.1

5.7

Dimensions (continued) Type 25

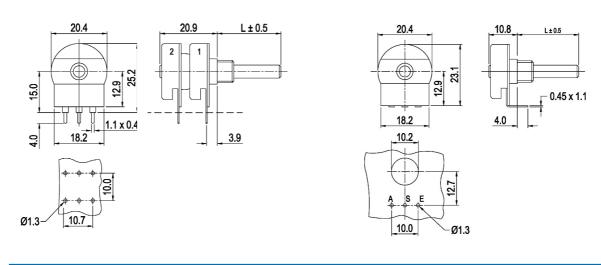


Type 26

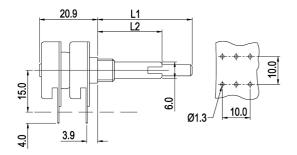


Type 27

Type 28



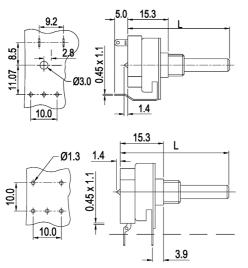
Type 29

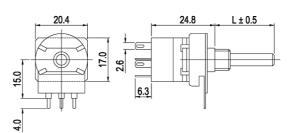




Type 23 Series

Dimensions (continued) Switched Types





How to Order

| 23 Potentiometer Type 23 - Std Spindle Style 24 - Standard 20mm with Mounting Bracket 25 - No Bush - Mounting Bracket Terminations swept forward parallel to shaft 26 - PC Terminations swept down to board for rear mounting 27 - Dual gang style single shaft same value / tol on each section 28 - PC Terminations swept forward parallel to shaft 29 - Dual Concentric style | E X Customer S- Stan X - Custome See Dra (provide copy D - Spec and Mtd | Identity dard er Special wing with order) ial Cut | signifigant resistance v third denotes of zeros t e.g. 100R 4.7K Oh | ce Value ro digits are t figures of alue and the s the number following. Ohms: 101 ms: 472 ms: 223 | - | L Bush D L - Diecast M no location lug W - Diecast M with locator, Y - Diecast M no locator, 4 M - Diecast 3 no locator, 6. P - Diecast 3 no locator, 4 S - Insulated M 6mm U - No F - Diecast 3/ 6.35mm G - Diecast 3/ no locator, 4 | etails 110 x 9mm 3, 6mm hole 110 x 9mm 6mm hole 110 x 9mm 4mm hole 110 x 9mm 4mm hole 110 x 9mm 4mm hole 110 x 7mm 100 x 10mm 100 x 10mm 100 x 12mm 100 x 12mm | Shaft | 2 Length in mm 22mm | A |
|--|--|--|--|---|--------------------------|---|---|--|--|---|
| E - Str P - Std PC R - Li X - Extra | from the PCB to the | he tip of | near og | | ce T (- 209 | % | A - PI B - Slo C - Fla (5m D - Fla deep fla E - PI F - Full 6 spec G - Fla H - Plai J - Flatt L - Fla | t Style ain 6mm tted 6mm tted 6mm tted 6mm tted 6mm t 4mm A/F ain 4mm .35mm flat - ial angle tted 4mm n 6.35mm tted 5.5mm tted 6mm nm A/F) | A - DPST B - SPS Term C - DPDT Sv D - DPS Term N - No | Details 4A/250V AC 5T - Eyelet ination - Changeover witch ST - Eyelet inations o Switch PC Terminals |

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.