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!

Contact us

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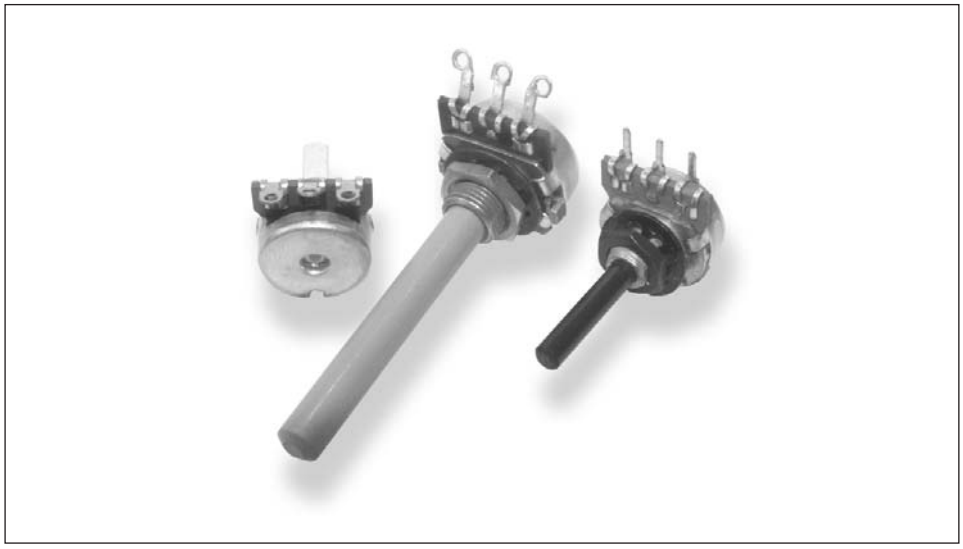
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Type 23 Series

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



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.

Characteristics - Electrical

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)

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

Type 23 Series

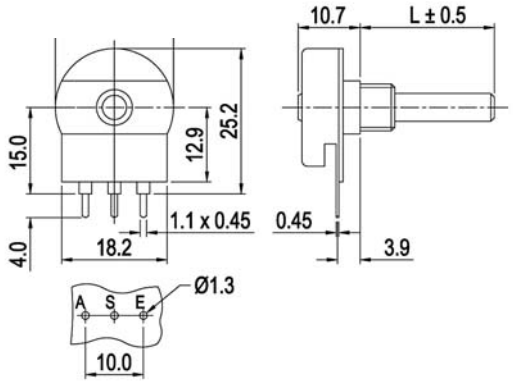
DIY Design

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

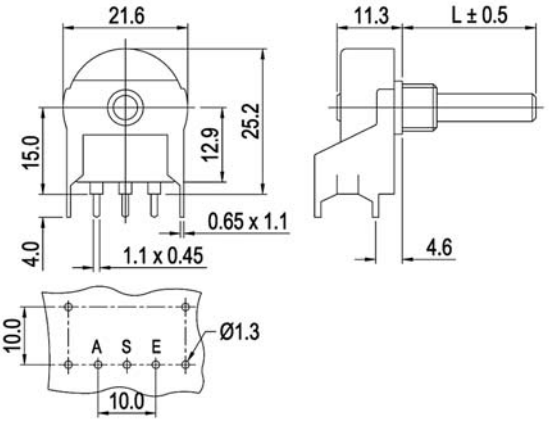
Please call our technical sales team to discuss variations on these 20mm diameter devices.

Dimensions

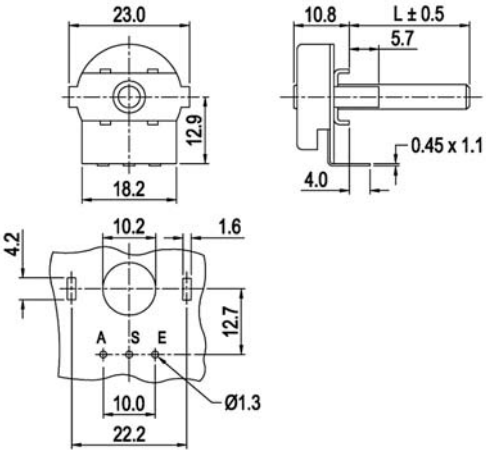
Type 23



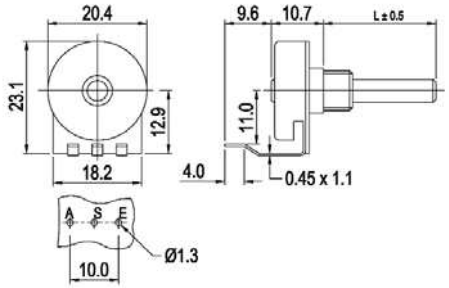
Type 24



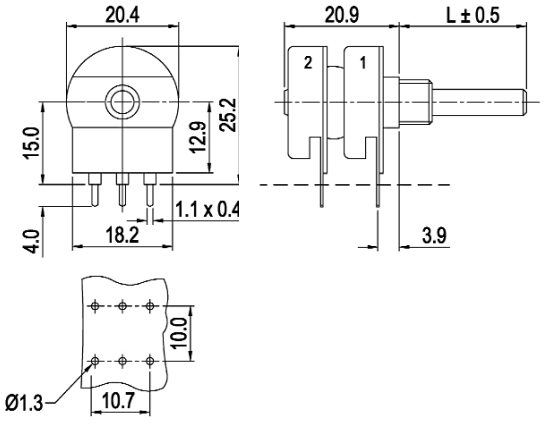
Type 25



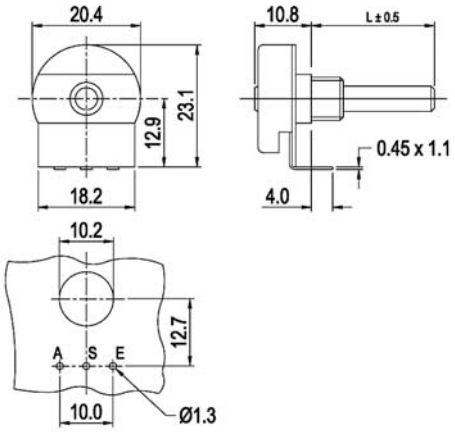
Type 26 (Non Switched only)



Type 27



Type 28

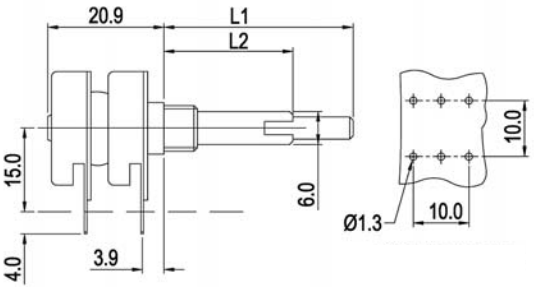


Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

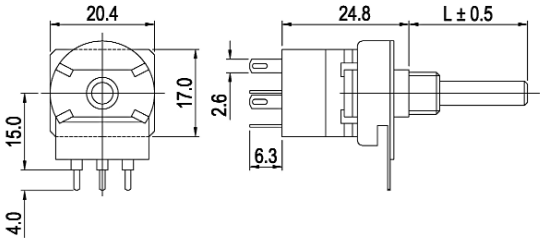
Dimensions are shown for reference purposes only. Specifications subject to change.

Type 23 Series

Type 29



Switched Types



How to Order

23	E	X	A	104	M	L	B	22	A

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

Customer Identity
- S- Standard
- X - Customer Special See Drawing (provide copy with order)
- D - Special Cut and Mtd track

Resistance Value
The first two digits are signifigant figures of resistance value and the third denotes the number of zeros following.

e.g. 100R Ohms: 101
4.7K Ohms: 472
22K Ohms: 223
100K Ohms: 104

Bush Details
- L - Diecast M10 x 9mm no location lug, 6mm hole
- W - Diecast M10 x 9mm with locator, 6mm hole
- Y - Diecast M10 x 9mm no locator, 4mm hole
- M - Diecast 3/8" x 8mm with location lug, 6.35mm hole
- K - Diecast 3/8" x 8mm no locator, 6.35mm hole
- P -Diecast M7 x 6mm no locator, 4mm hole
- S - Insulated M10 x 7mm 6mm hole
- T - Insulated M10 x 10mm 6mm hole
- U - No Bush
- F - Diecast 3/8" x 12mm 6.35mm hole
- G - Diecast 3/8" x 8mm no locator, 4mm hole

Shaft Length
FMF in mm
i.e. 22mm

Termination Style
- E - Std Eyelet
- P - Std PC 15mm MH
- R - Long PC
- X - Extra long PC
- S - PC bend forward at 90°

Resistance Law
- A - Linear
- B - Log
- C - Inv. Log

Resistance Tolerance
- M - 20%
- K - 10%

Shaft Style
- A - Plain 6mm
- B - Slotted 6mm
- C - Flatted 6mm (5mm A/F)
- D - Flatted 6mm deep flat 4mm A/F
- E - Plain 4mm
- F - Full 6.35mm flat - special angle
- G - Flatted 4mm
- H - Plain 6.35mm
- J - Flatted 5.5mm
- L - Flatted 6mm (4.6mm A/F)

Switch Details
- A - DPST 4A/250V AC
- B - SPST - Eyelet Termination
- C - DPDT - Changeover Switch
- N - No Switch
- T - SPST - PC Terminals