

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)

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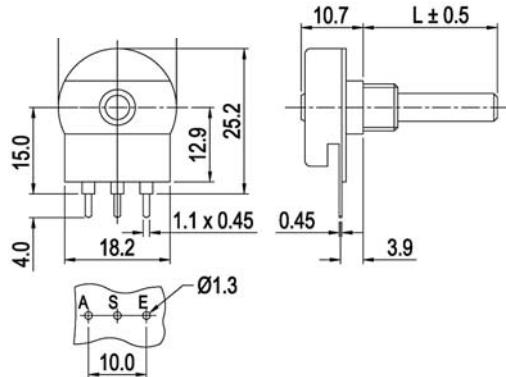
DIY Design

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

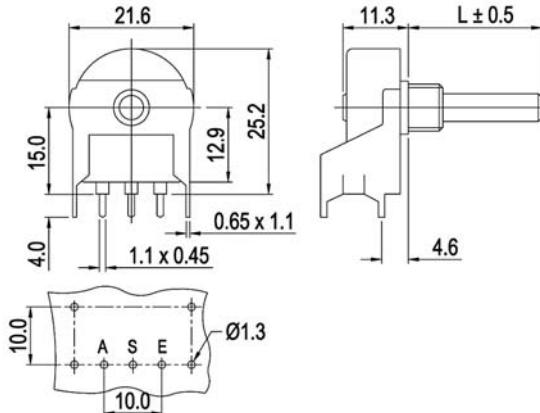
Please call our technical sales team to discuss variations on these 20mm diameter devices.

Dimensions

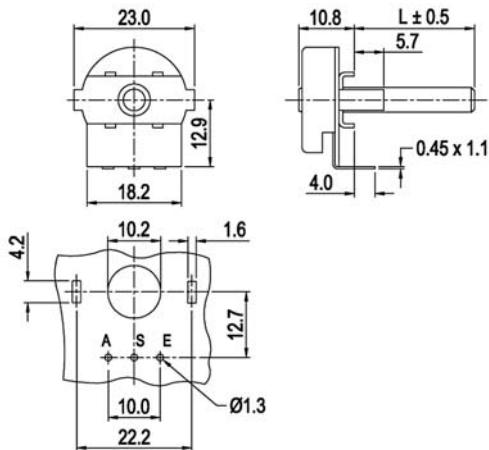
Type 23



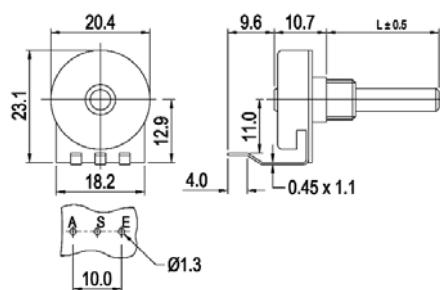
Type 24



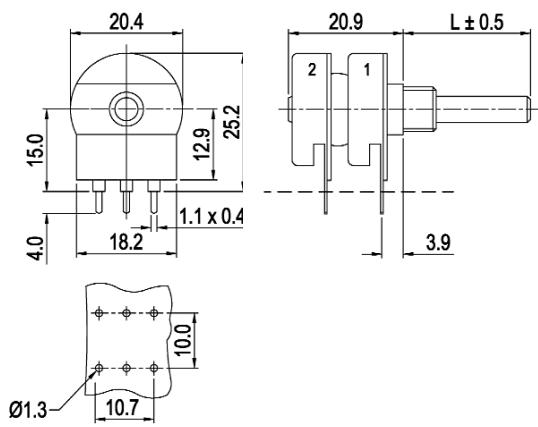
Type 25



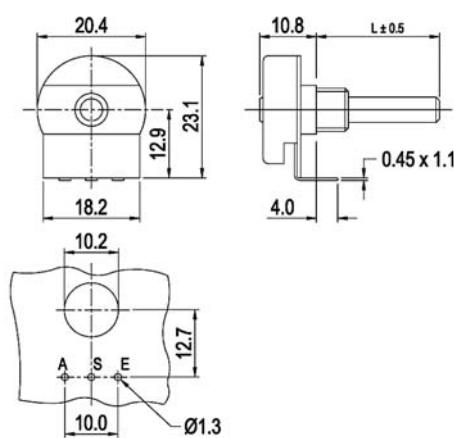
Type 26 (Non Switched only)



Type 27



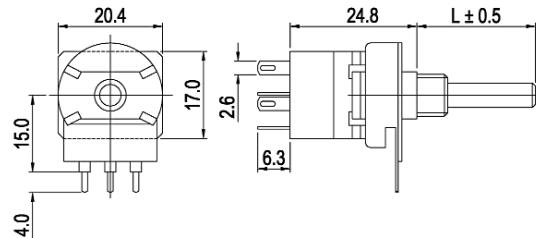
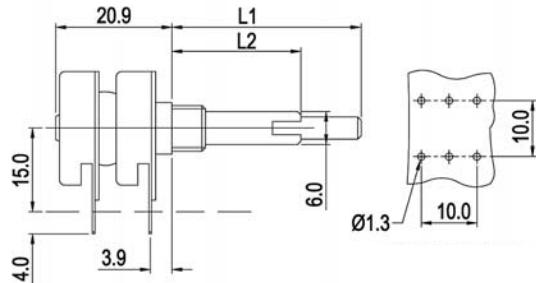
Type 28



Type 23 Series

Type 29

Switched Types



How to Order

23	E	X	A	104	M	L	B	22	A
Potentiometer Type		Customer Identity		Resistance Value		Bush Details		Shaft Length	
23 - Std Spindle Style		S - Standard		The first two digits are significant figures of resistance value and the third denotes the number of zeros following.		L - Diecast M10 x 9mm no locator, 6mm hole		FMF in mm i.e. 22mm	
24 - Standard 20mm with Mounting Bracket		X - Customer Special See Drawing (provide copy with order)		W - Diecast M10 x 9mm with locator, 6mm hole		Y - Diecast M10 x 9mm no locator, 4mm hole			
25 - No Bush - Mounting Bracket Terminations swept forward parallel to shaft		D - Special Cut and Mtd track		M - Diecast 3/8" x 8mm with location lug, 6.35mm hole		M - Diecast 3/8" x 8mm no locator, 6.35mm hole			
26 - PC Terminations swept down to board for rear mounting				K - Diecast 3/8" x 8mm no locator, 6.35mm hole		K - Diecast 3/8" x 8mm no locator, 6.35mm hole			
27 - Dual gang style single shaft same value / tol on each section				P - Diecast M7 x 6mm no locator, 4mm hole		P - Diecast M7 x 6mm no locator, 4mm hole			
28 - PC Terminations swept forward parallel to shaft				S - Insulated M10 x 7mm 6mm hole		S - Insulated M10 x 7mm 6mm hole			
29 - Dual Concentric style				T - Insulated M10 x 10mm 6mm hole		T - Insulated M10 x 10mm 6mm hole			
				U - No Bush		U - No Bush			
				F - Diecast 3/8" x 12mm 6.35mm hole		F - Diecast 3/8" x 12mm 6.35mm hole			
				G - Diecast 3/8" x 8mm no locator, 4mm hole		G - Diecast 3/8" x 8mm no locator, 4mm hole			
Termination Style	Resistance Law	Resistance Tolerance	Shaft Style	Switch Details					
E - Std Eyelet	A - Linear	M - 20%	A - Plain 6mm	A - DPST 4A/250V AC					
P - Std PC 15mm MH	B - Log	K - 10%	B - Slotted 6mm	B - SPST - Eyelet Termination					
R - Long PC	C - Inv. Log		C - Flatted 6mm (5mm A/F)	C - DPDT - Changeover Switch					
X - Extra long PC			D - Flatted 6mm deep flat 4mm A/F						
S - PC bend forward at 90°			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)						

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