

Type CP16 Series



Specify the type CP16 for applications where high insulation resistance and voltage proof are key requirements. The materials used in the all-plastic body and spindle construction make it an ideal component for domestic appliances and control systems where safety is of prime importance. This popular low cost potentiometer is suitable for industrial and professional applications.

Key Features

- High Reliability
- Small Versatile Size
- All Plastic Body
- Plastic or Metal shaft styles
- Switch Types Available
- Multiple Sections Available
- Flatted, Serrated Shaft Available

Characteristics - Electrical

Resistance Range:	100R to 4M7 Linear, 2K2 to 2M2 Non-Linear
Resistance Values:	1, 2.2 & 4.7 in each decade
Resistance Tolerance:	±20% ($>1M \pm 30\%$) - ±10% by selection
Power Rating @ 40°C:	0.2 Watts Linear - 0.1 Watts Non-Linear
Limiting Element Voltage:	250 Volts dc (Linear), 125 Volts dc (Non Linear)
Electrical Rotation:	260° ± 20°
Terminal Resistance:	5 ohms, maximum ≤0.1% (2 ohms, minimum)
Noise (ENR):	≤3% (3 ohms minimum)
Insulation Resistance:	4G ohms, minimum
Resolution:	Essentially Infinite
Voltage Proof:	1KV ac peak

Characteristics - Mechanical

End Torque:	400 mNm maximum
Operating Torque:	5 to 25 mNm maximum
Mechanical Adjustment:	$300^\circ \pm 5^\circ$
Maximum Torque to Nut:	800 mNm

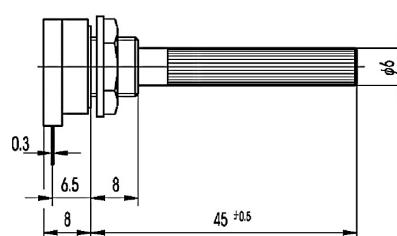
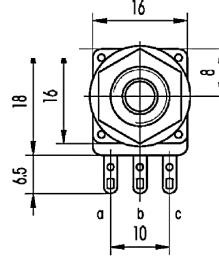
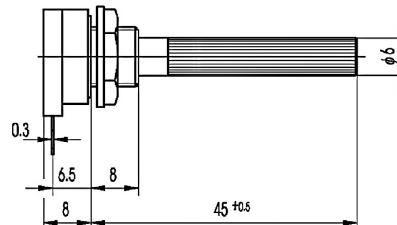
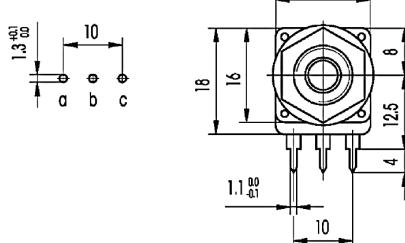
Characteristics - Environmental

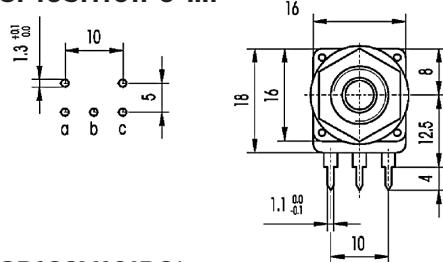
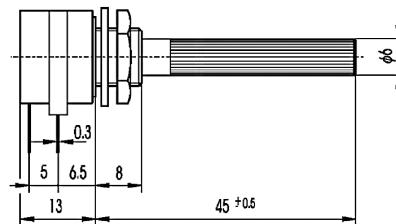
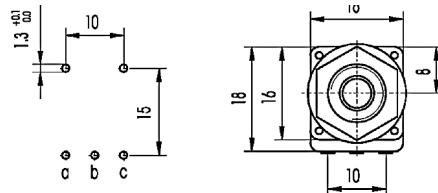
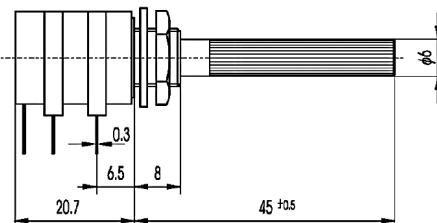
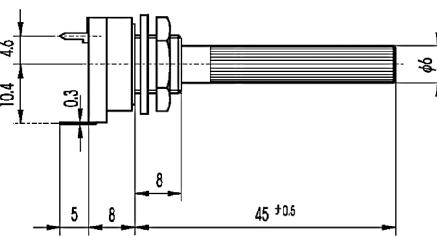
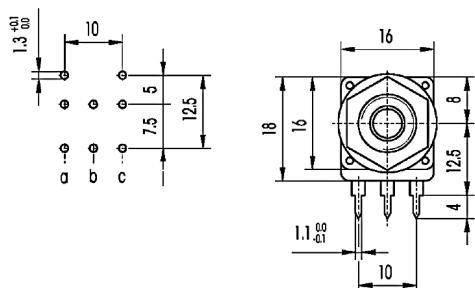
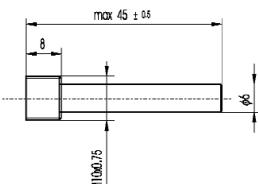
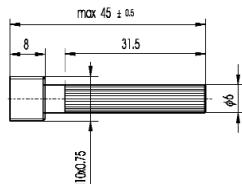
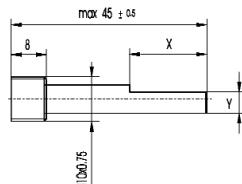
Electrical Life:	$\Delta R \pm 5\%$ (1000 hours 0.2 Watts @ 40°C)
Mechanical Life:	25,000 operations
Operating Temperature:	-25°C to +70°C
Temperature Coefficient:	$\pm 300\text{ppm}/^\circ\text{C}$ ($R_n < 100\text{K ohms}$)
Thermal Cycling:	$\Delta R \pm 2.5\%$ (16 hours 85°C, 2 hours @ -25°C)
Damp Heat:	$\Delta R \pm 5\%$ (500 hours @ 40°C +95% RH)
Vibration:	$\Delta R \pm 2\%$ (2 hours @ 20g - 10Hz ~50 Hz)

Switch Specifications

Nominal Current:	1A, 250 VAC
Contact Resistance:	10 milli ohms
Operating Torque:	10 to 30mNm
Operating Angle:	30° ± 5°
Test Voltage:	500 V

Dimensions CP16SH10IP06*



Type CP16 Series
**Dimensions
CP16SH10IP6*...I**

CP16SV10IP6*...

CP16DH10IP6*...I

Shaft Styles (Plastic)
R06/R6

P06/P6

F06/F6

How to Order

CP16S	H10	I	PO6	102	Resistance Value	Law	Tolerance	Switch
Common Part	Style / Bush	Terminals	Shaft Type		<p>The first two digits are significant figures of resistance value. The third denotes the number of zeros following.</p> <p>e.g. 100R: 101 1K: 102 10K: 103 100K: 104</p>	<p>-- Linear B - Log C - Inverse Log</p>	<p>-- Standard K - 10%</p>	<p>-- No Switch I - Switched</p>