

Spindle Operated Potentiometers (9mm)

Type PC610 Series

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Tyco specification in polymer technology gives this small single turn potentiometer stability, reliability and long life. For use in industrial and consumer applications, this component offers durability and quality performance and is available with top or side mounting versions with alternative shafts.

The PC610 is an ideal component in toys, games, computer brightness and contrast and most suited to similar large volume applications where the completely automated manufacture allows attractive prices to be achieved. The PC610 is often used without a control knob with the splined tip protruding from the fascia.

The PC610 is available with or without centre detent.

Key Features

- Stable High Resolution Element
- Space Saving Size (Only 9.5mm Wide)
- Offered in Linear and Non-Linear Laws
- Vertical or Horizontal Mounting
- Choice of Shaft Style
- PCB Standoffs
- Simple One Piece Style

Characteristics - Electrical

Resistance Range:	500 Ohms to 500K Ohms
Resistance Values:	1,2 and 5 in each decade
Resistance Laws available:	Linear and Non Linear
Resistance Tolerance:	± 20%
End Resistance:	2% Nominal
Slider Current:	50mA
Power Rating, Watts:	0.05W
Maximum Working Voltage:	20Vdc or ac RMS, Max.
Insulation Resistance:	100 M Ohms Min at 250 Vdc
Rotational Noise (CRV):	20 Ohms or 3% whichever is greater
Temperature Coefficient:	5%

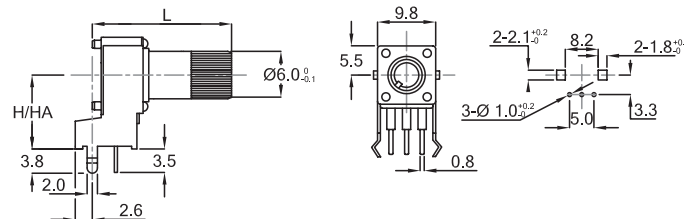
Characteristics - Mechanical

End Stop:	20mNm
Rotational Torque:	1 - 15mNm
Mechanical Adjustment:	1 Turn - 280° ±10°
Soldering:	300°C (maximum 3 seconds)
Weight:	3 grams approximate.

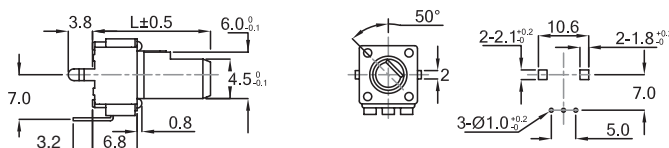
Characteristics - Environmental

Temperature Range:	-20°C to 70°C
Temperature Storage:	1000 Hrs at 70°C
Bump Severity:	4000 Bumps; 20G
Vibration Severity:	10 - 500Hz; 10G
Rotational Life:	5,000 Operations minimum
Load Life at 50°C:	ΔR < +10% -15% after 500 hours

Dimensions PC610H



PC610V



How to Order PC610

Common Part	H	104	B	M	20
Orientation	Resistance Value	Resistance Law	Shaft Style	Shaft Length	
PC610 - No Detent PC611 - With Detent PC612 - Special Mounting Height (6.5mm)	H - 10mm Mounting Height Shaft parallel to PCB HA - 12.5mm Mounting Height Shaft parallel to PCB V - Shaft at 90° to PCB	The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 1K: 102 5K: 502 100K: 104	A - Linear B - Log C - Inverse Log	F - Flatted K - Knurled M - Pointer N - Plain P - Phillips Slot S - Serrated	(S)20 - 20mm Serrated (S)30 - 30mm Serrated (S)35 - 35mm Serrated (F)15 - 15mm Flatted (P)15 - 15mm Slotted (K)30 - 30mm Knurled

Mouser Electronics

Authorized Distributor

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[PC610V103AK30LF](#)