Automotive / Appliance control - sensor 10 mm carbon potentiometer **PT10**



Mechanical specifications

Mechanical rotation angle		$235^{\circ} \pm 10^{\circ}$	
		200 ± 10	Carbon resistive element.
Torque	rotational stop	10~80gf.cm 400gf.cm min	Dust proof enclosure.Nnloy substrate
Life		up to 10K cycles	Wiper positioned at initial, 50% or fully clockwise.

* ROHS compliant

Electrical specifications

Range of values ¹	1 K $\Omega \le $ R $n \le 2$ M Ω
Standard tolerance*:	± 20%
Max. voltage	200 VDC
Rating power 70°C	0.15 W
Taper	Reverse log , Linear , Log
Residual resistance	≤10 Ω
Slider noise	≤68mV
Operating temperature ²	-10°C to+70°C

¹ Others: check availability.

² Up to 85°C depending on application.

Materials

Driving plate&Housing	PA6 (Fammability rating: HB)
Terminals	Tinned steel strip
Reed	Tin bronze

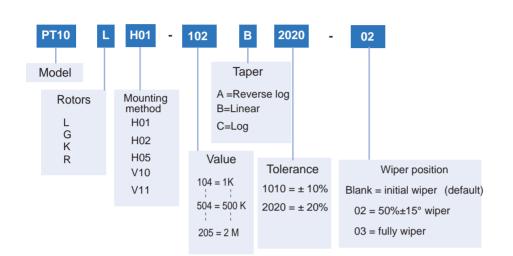
Features

Applications

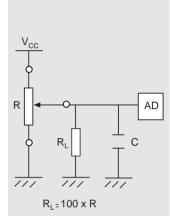
Typical applications include test and measurement equipment, consumer electronics, appliances, small engines, robotics, motion controllers, and medical equipment control panels.

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How to order







Power rating curve

How to order examples

PT10LH01-103B2020

10mm potentiometer with rotor "L" (arrow shape),"H01" Mounting method(horizontal adjustment), 10K value and 20% resistive tolerance,initial wiper.

Standard values - tolerances

Resistance Ω	1K	2K	5K	10K	20K	25K	50K	100K	200K	250K	500K	1M	2M
How to order code	102	202	502	103	203	253	503	104	204	254	504	105	205
Standard tolerance							20%						

Tests

Mechanical life (cycles)	1000 @ 10 CPM15 CPM
Temperature coefficient	-10°C to+70°C
Heat resistance	16 h. @ 85 ℃
Moisture resistance	96 h. @ 40℃ @ 95% HR

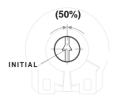
Soldering condition

Wave soldering	260 ± 5 °C , 5±1second
Manual soldering	Max 350°C , within 3 second

W (%) 100 % 40 % 50° 70° → °C

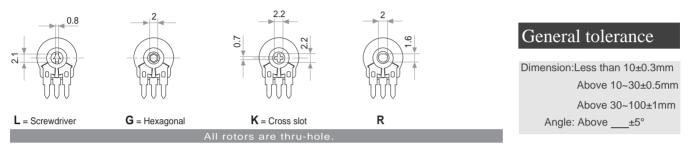


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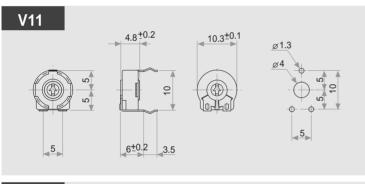
Rotors (Default delivery is at initial position. Wipers are shown positioned at 50% for the picture)

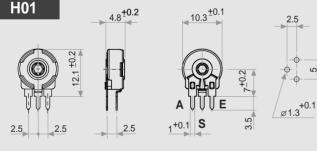
Without shaft or knob.



Mounting methods. Dimensions

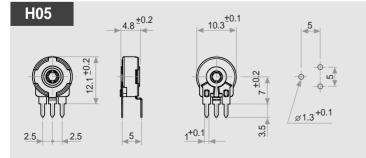
V = horizontal mounting - vertical adjustment



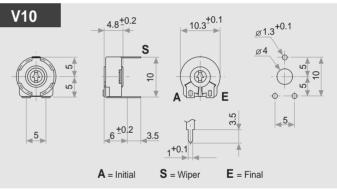


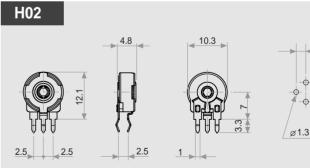
A = Initial

S = Wiper E = Final



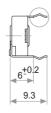
H = vertical mounting – horizontal adjustment

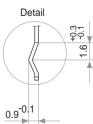




Crimped terminals - detail

V11, H02 models feature "crimped" terminals that provide greater stability during the soldering process.





Tapers

