

6mm carbon potentiometer PT06



Mechanical specifications

Mechanical rotation angle		235° ± 10°
Torque	rotational	10~80gf.cm
	stop	400gf.cm min
Life		up to 10K cycles

Electrical specifications

Range of values ¹		1K Ω ≤ Rn ≤ 2MΩ
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	Zinc cupronickel

Features

- Carbon resistive element.
 - Dust proof enclosure.
 - Nnloy substrate
 - Wiper positioned at initial, 50% or fully clockwise.
- * ROHS compliant

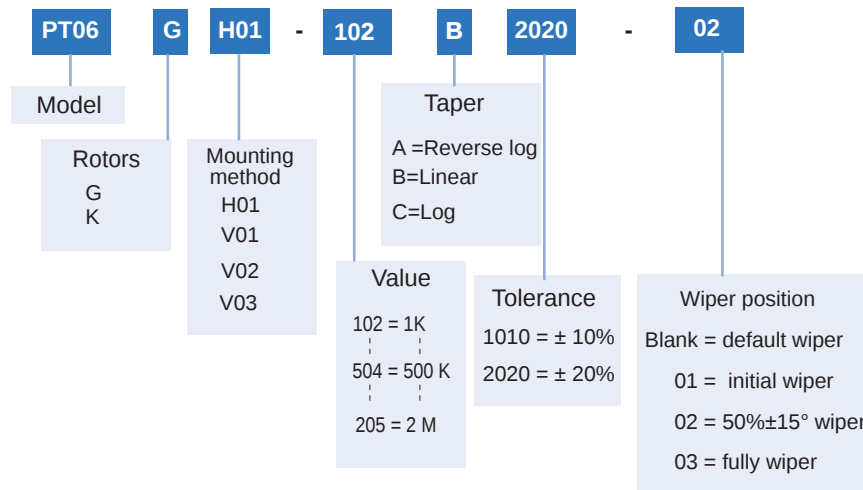
Applications

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

Automotive / Appliance control - sensor

6 mm carbon potentiometer PT06

How to order



How to order examples

PT06KH01-103B2020-01

6mm potentiometer with rotor "K" (Cross slot)," 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%												

Typical weight

1 pc of weight: 0.185±0.005g

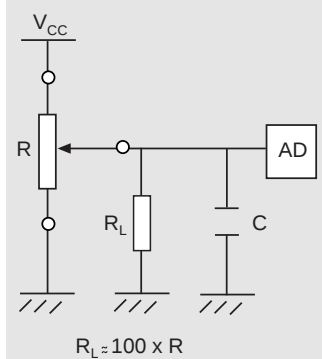
Tests

Mechanical life (cycles)	1000 @ 10 CPM ...15 CPM
Temperature coefficient	-10°C to +70°C
Heat resistance	16 h. @ 85 °C
Moisture resistance	96 h. @ 40°C @ 95% HR

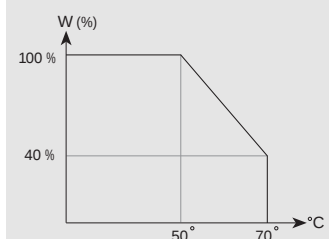
Soldering condition

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

Recommended connections



Power rating curve

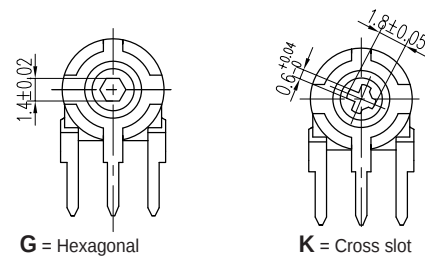
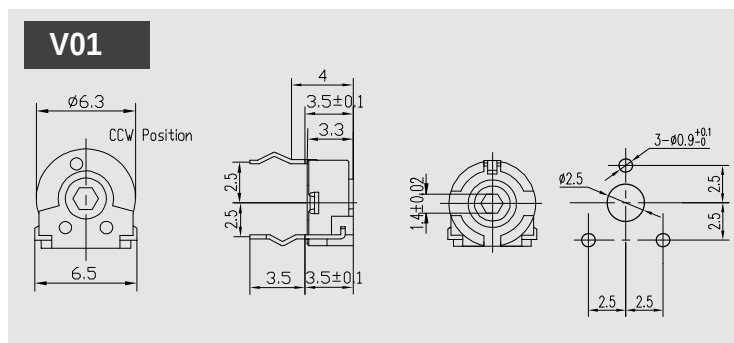


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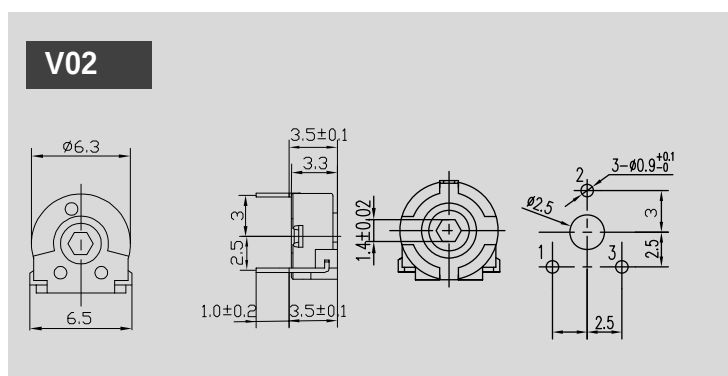
Mounting methods. Dimensions

V = horizontal mounting – vertical adjustment

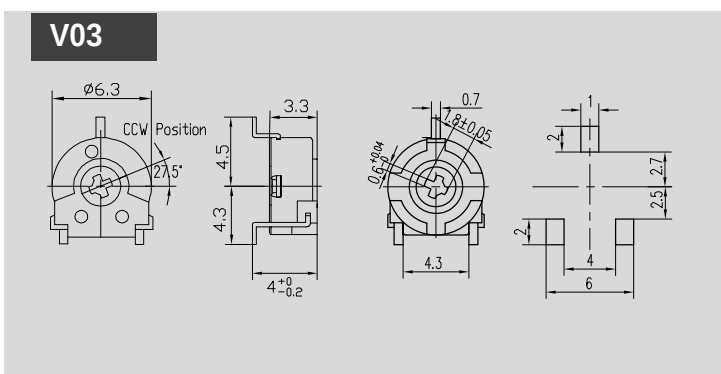
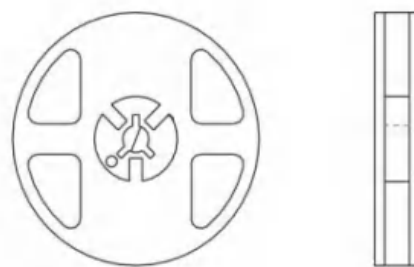
Without shaft or knob.



All rotors are thru-hole.

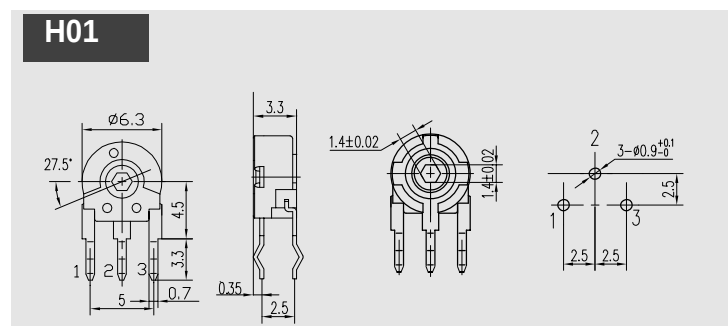


Packaging for V03



QTY:1200PCS/REEL

H = vertical mounting – horizontal adjustment



GENERAL TOLERANCE

Dimension:

$X < 10 \pm 0.3\text{mm}$

$10 \leq X < 30 \pm 0.5\text{mm}$

$30 \leq X \leq 100 \pm 1\text{mm}$

Angle: $\pm 5^\circ$

Tapers

