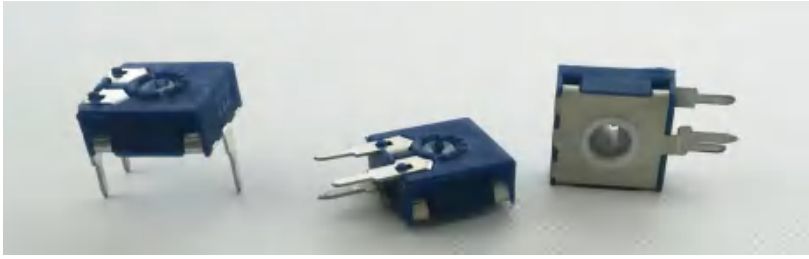
Automotive / Appliance control - sensor

9 mm carbon potentiometer

CA9



Mechanical specifications

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

Electrical specifications

Range of values [1]	1KΩ ≤ 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	Tin bronze

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.

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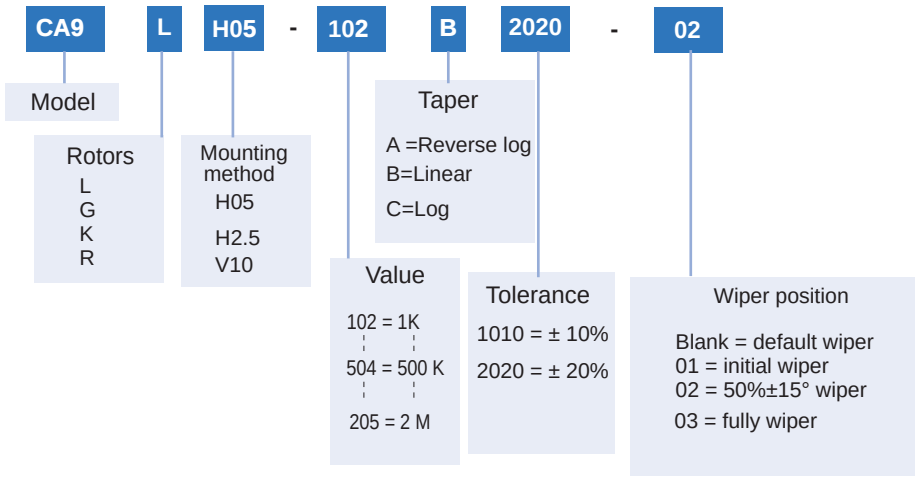
How to order



How to order examples

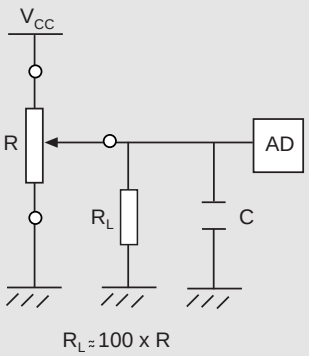
CA9L H05 -103B2020

9mm potentiometer with rotor "L" (arrow shape) , "H05"Mounting methods (vertical mounting – horizontal adjustment) , 10K value and 20% resistive tolerance ,default wiper.

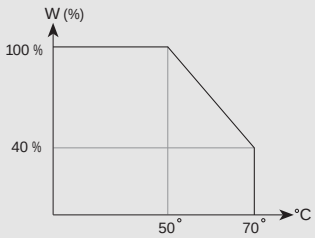
Standard values - tolerances

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%												

Recommended connections



Power rating curve



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	Max 260°C, within 5 second
Manual soldering	Max 300°C, within 3 second

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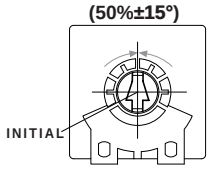
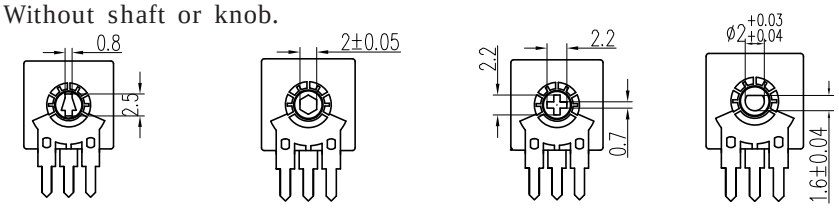


Rotors (Wipers are shown positioned at 50% for the picture)

Without shaft or knob.



All rotors are thru-hole.

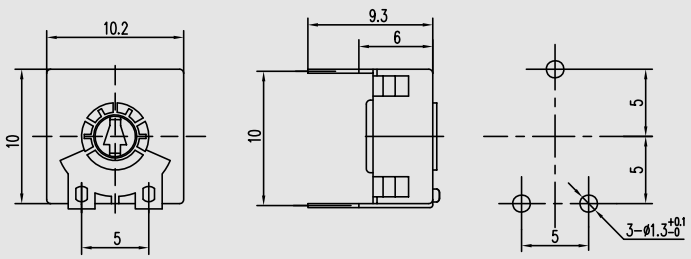
General tolerance

Dimension:
X＜10 ± 0.3mm
10 ≤ X ＜30 ± 0.5mm
30 ≤ X ≤ 100 ± 1mm
Angle: ± 5°

Mounting methods. Dimensions

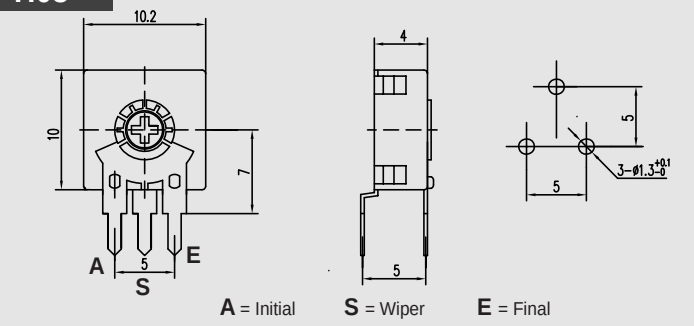
V = horizontal mounting – vertical adjustment

V10

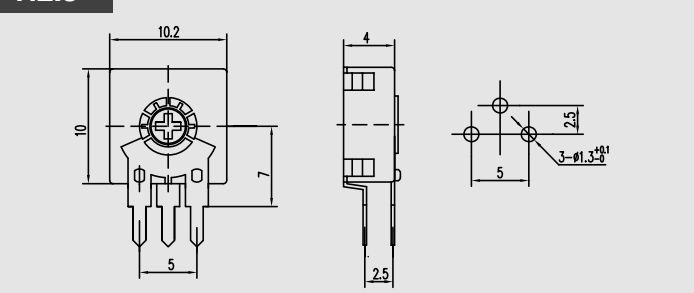


H = vertical mounting – horizontal adjustment

H05



H2.5



Tapers