



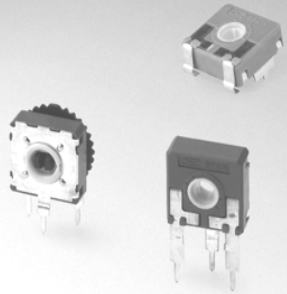
# Guideline to build an ACP product description





# HOW TO ORDER

Descriptions can occupy three different groups: basic features, extra features and assembled accessories.



Basic features								Extra features							Assembled accessories			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
CA14	N	H2,5		- 10K	A	2020			10DT	SNP				PI		WT -14117	-BA	

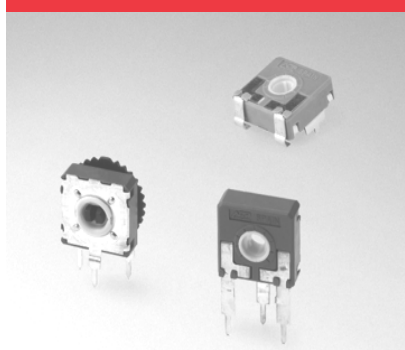


**Block**

We will cover the basic information needed to complete a standard potentiometer (first block), for example: CA14NH2,5-10KA2020



# Series



## Basic features

Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

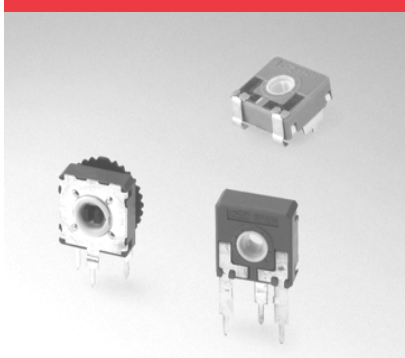
**CA:** Carbon. Polyester substrate that withstands from  $-25^{\circ}$  to  $+70^{\circ}\text{C}$ .

**CE:** Cermet. Alumina substrate (or “cermet” substrate) withstanding from  $-40^{\circ}$  to  $+125^{\circ}\text{C}$ . It also has better heat dissipation than carbon.

**14:** side of the housing, in mm. ACP has 6, 9 and 14mm products.



# Rotor



Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

Each series has rotors to choose from. The most common rotors are:

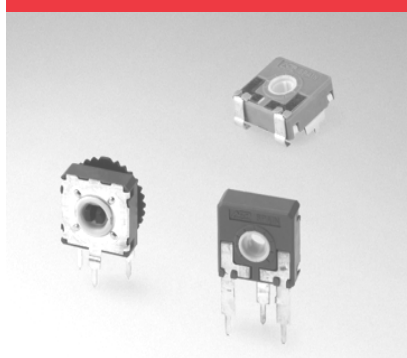
6mm -- X, in cross shape.

9mm -- M, hexagonal, for shafts. P -arrow- for screwdriver adjustment

14mm -- N, for shafts.



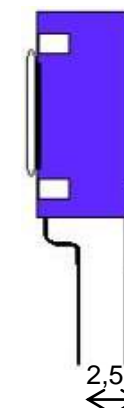
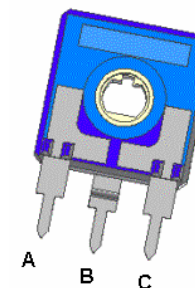
# Model



Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

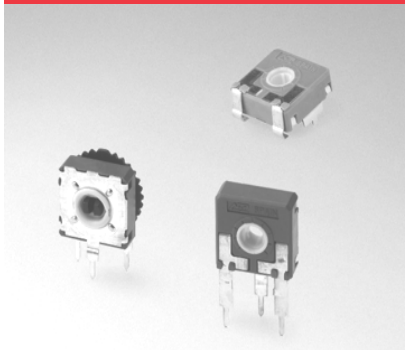
H stands for horizontal adjustment and V for vertical adjustment. The number after that indicates the distance in mm between the collector (B) and the line that links terminals A and C.

For example, the poti on the picture is H2,5





# Packaging



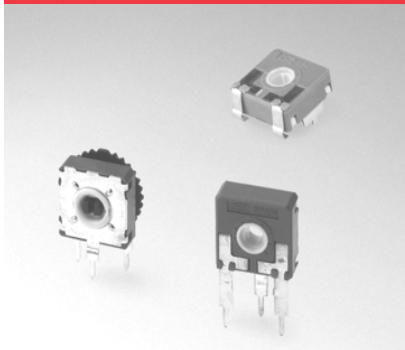
Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

Packaging refers mainly to SMD potentiometers in Tape and Reel. If the potentiometers have to be sent in bulk, the cell is left blank.

For example: CA6XVSMD-**T&R**-10KA2525 is an SMD potentiometer, packaged in Tape & Reel.



# Value



Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

Ohm value can be chosen from a list of standard values. In general, we have the following ranges:

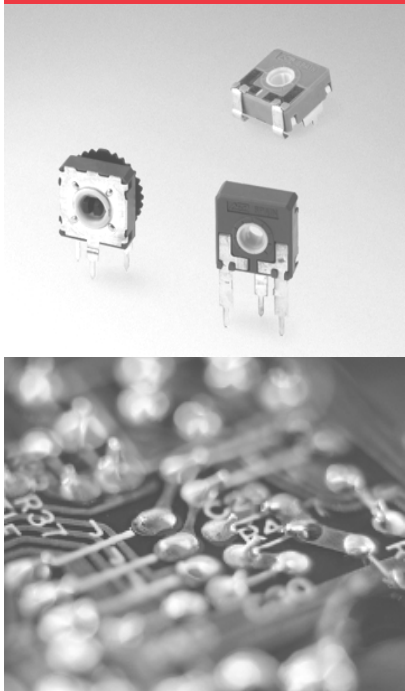
Through hole: from 100 $\Omega$  to 5M $\Omega$

SMD: from 100 $\Omega$  to 1M $\Omega$

Special values are also available on request.



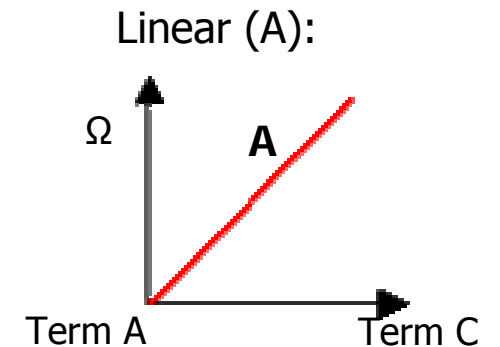
# Taper



Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

Tapers are usually linear (A). Logarithmic (B) and antilogarithmic (C) are also available, as well as special tapers.

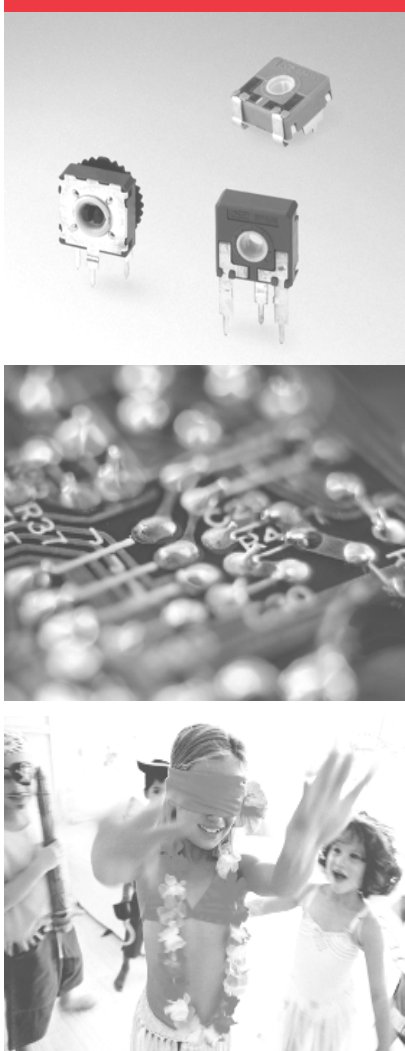
Special tapers are indicated with two letters. For example: CA9MV10-10K**DD**2020.







# Tolerance



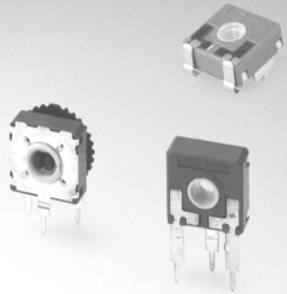
Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

Tolerance indicates the range where the total value of the potentiometer can be found, in excess the nominal or below:  $\pm 20\%$  = 2020; +10% -20% would be 1020.

Through-hole potentiometers have lower standard tolerance than SMD. Please, check the short catalogue titled “**Technical Information** – it includes complete information on SMD types” for details.



# Life cycles



Basic features							
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life
1	2	3	4	5	6	7	8
CA14	N	H2,5		- 10K	A	2020	

The standard life of a potentiometer is usually 1000 cycles.

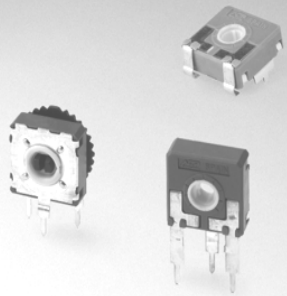
If longer life is required, it should be indicated as **LVXX**, where XX stands for the thousands of cycles needed. For example: LV10 for 10.000 cycles.

Even if the product has detents, the number of cycles should be indicated.



# Extra features

Once the basic features are indicated, we can continue to build a more complex product, with detents, crimped terminals, housing in different colors, special linearity, etc...

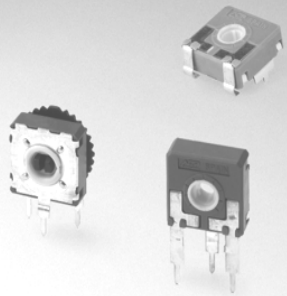


Standard features								Extra features							Assembled accessories				
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life	Track	Detents	Snap in	Housing	Rotor	Wiper	Lin	Assembly	Ref #	Color	Flammability	Riveted
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	
CA14	N	H2,5		- 10K	A	2020			10DT	SNP			PI		WT -14117 -BA				



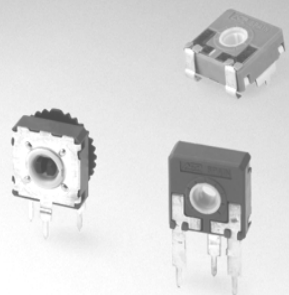
# Assembly of accessories

If a potentiometer has a shaft or thumbwheel inserted, it is indicated at the end of the description:



Standard features								Extra features							Assembled accessories				
Series	Rotor	Model	Packg	Value $\Omega$	Taper	Tol	Life	Track	Detents	Snap in	Housing	Rotor	Wiper	Lin	Assembly	Ref #	Color	Flammability	Riveted
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	
CA14	N	H2,5		-10K	A	2020			10DT	SNP			PI		WT -14117 -BA				

In this case, **WT** means the insertion is from the plastic (logo) side. **14117** is the shaft reference. **BA** means the color is white. Flammability characteristics as well as riveting would be indicated here if needed.



# Thank you!

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