

Capacitor Code Calculator

Decode common three-digit capacitor markings and convert the nominal value between pF, nF, and uF. Confirm the full marking and component rating before applying the result.

Generated October 10, 2026

<https://www.elecatrix.com/circuits-components/capacitor-code-calculator/>

Inputs

Input	Value	Unit
Capacitor code	104	
Tolerance code	J = +/-5%	
Preferred display unit	uF	

Results

Result	Value	Unit
Capacitance (pF)	100000	pF
Capacitance (nF)	100	nF
Capacitance (uF)	0.1	uF
Tolerance	5	%
Preferred unit	uf	

Calculation details

Detail	Value	Unit
Calculation basis	The first two code digits provide the significant value and the third digit provides the power-of-ten multiplier in picofarads.	
Component boundary	Code decoding only; verify marking convention, voltage rating, dielectric, polarity, tolerance, temperature behavior, manufacturer data, and component safety before use.	

Formulas

Capacitance (pF) = (first two digits) x 10^third digit

Capacitance (nF) = (capacitance (pF)/1000)

Capacitance (uF) = (capacitance (pF)/1000000)

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Tolerance percent = J: 5%, K: 10%, M: 20%

Warnings and limitations

This capacitor code estimate decodes a common three-digit marking only. Verify the full component marking, voltage rating, polarity, dielectric, tolerance, temperature, manufacturer data, and safety requirements before use.