



Capacitance Value Codes

This brief table gives the basic rules for reading and translating the capacitance value-number-codes found on many small capacitors where the printable surface area demands readable abbreviations.

The letter-codes are designating the tolerance on the coded value.

Note: Other values can be determined by imputation.

Code	SMD	Pico-Farad	Nano-Farad	Micro-Farad
010	C010	1pF	0.001nF	0.000001uF
020	C020	2pF	0.002nF	0.000002uF
030	C030	3pF	0.003nF	0.000003uF
047	C047	4.7pF	0.0047nF	0.0000047uF
050	C050	5pF	0.005nF	0.000005uF
100	C100	10pF	0.01nF	0.00001uF
120	C120	12pF	0.012nF	0.000012uF
150	C150	15pF	0.015nF	0.000015uF
180	C180	18pF	0.018nF	0.000018uF
220	C220	22pF	0.022nF	0.000022uF
270	C270	27pF	0.027nF	0.000027uF
330	C330	33pF	0.033nF	0.000033uF
390	C390	39pF	0.039nF	0.000039uF
470	C470	47pF	0.047nF	0.000047uF
560	C560	56pF	0.056nF	0.000056uF
680	C680	68pF	0.068nF	0.000068uF
820	C820	82pF	0.082nF	0.000082uF
101	C101	100pF	0.1nF	0.0001uF
121	C121	120pF	0.12nF	0.00012uF
151	C151	150pF	0.15nF	0.00015uF
181	C181	180pF	0.18nF	0.00018uF
221	C221	220pF	0.22nF	0.00022uF
331	C331	330pF	0.33nF	0.00033uF
391	C391	390pF	0.39nF	0.00039uF
471	C471	470pF	0.47nF	0.00047uF
561	C561	560pF	0.56nF	0.00056uF
681	C681	680pF	0.68nF	0.00068uF
821	C821	820pF	0.82nF	0.00082uF
102	C102	1,000pF	1nF	0.001uF
103	C103	10,000pF	10nF	0.01uF
104	C104	100,000pF	100nF	0.10uF
105	C105	1,000,000pF	1,000nF	1uF
106	C106	10,000,000pF	10,000nF	10uF
107	C107	100,000,000pF	100,000nF	100uF
108	C108	1,000,000,000pF	1,000,000nF	1,000uF
109	C109	10,000,000,000pF	10,000,000nF	1,0000uF

Note: For a table of standard and special tolerances see below.



Capacitance Tolerance Codes

Code	Colour	Tolerance	Typical Conditions
A	NA	+20/-10%	used on electrolytic capacitors
C	Red	+/- 0.25pF	values < 10pf only
D	Green	+/- 0.5pF	typically on values 1~99pF
E	White	+/- 0.5%	values =>100pF
F	Brown	+/- 1%	values > 50pf only
G	Red	+/- 2%	values > 25pf only
NA	NA	+/- 2.5%	produced by some makers
H	NA	+/- 3%	values > 25pf only
J	Green	+/- 5%	values =>10pF
K	White	+/- 10%	
L	NA	+/- 15%	
M	Black	+/- 20%	
N	NA	+/- 30%	
P	NA	+100/-0%	
Q	NA	+30/-10%	
S	NA	+50/-20%	
W	NA	+40/-20%	
W	NA	+50/-10%	
Z	Grey	+80/-20%	typically electros & Hi-K ceramics

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