



## 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 interpreted by simple imputation.

Code	Pico-Farad	Nano-Farad	Micro-Farad
010	1pF	0.001nF	0.000001uF
020	2pF	0.002nF	0.000002uF
030	3pF	0.003nF	0.000003uF
050	5pF	0.005nF	0.000005uF
<b>100</b>	<b>10pF</b>	<b>0.01nF</b>	<b>0.00001uF</b>
120	12pF	0.012nF	0.000012uF
150	15pF	0.015nF	0.000015uF
180	18pF	0.018nF	0.000018uF
220	22pF	0.022nF	0.000022uF
270	27pF	0.027nF	0.000027uF
330	33pF	0.033nF	0.000033uF
390	39pF	0.039nF	0.000039uF
470	47pF	0.047nF	0.000047uF
560	56pF	0.056nF	0.000056uF
680	68pF	0.068nF	0.000068uF
820	82pF	0.082nF	0.000082uF
<b>101</b>	<b>100pF</b>	<b>0.1nF</b>	<b>0.0001uF</b>
121	120pF	0.12nF	0.00012uF
151	150pF	0.15nF	0.00015uF
181	180pF	0.18nF	0.00018uF
221	220pF	0.22nF	0.00022uF
331	330pF	0.33nF	0.00033uF
391	390pF	0.39nF	0.00039uF
471	470pF	0.47nF	0.00047uF
561	560pF	0.56nF	0.00056uF
681	680pF	0.68nF	0.00068uF
821	820pF	0.82nF	0.00082uF
<b>102</b>	<b>1000pF</b>	<b>1nF</b>	<b>0.001uF</b>
<b>103</b>	<b>10000pF</b>	<b>10nF</b>	<b>0.01uF</b>
<b>104</b>	<b>100000pF</b>	<b>100nF</b>	<b>0.1uF</b>
<b>105</b>	<b>1000000pF</b>	<b>1000nF</b>	<b>1uF</b>

Code	Tolerance	Typical Conditions
C	+/- 0.25pF	values < 10pf only
D	+/- 0.5pF	values 1~99pF
E	+/- 0.5%	values =>100pF
F	+/- 1%	values > 50pf only
G	+/- 2%	values > 25pf only
J	+/- 5%	values =>10pF
K	+/- 10%	
M	+/- 20%	
Z	+ 80% / - 20%	typically electros & Hi-K ceramics