

μF	nF	pF	CODE
.00001	.01	10.	100
.000012	.012	12.	120
.000015	.015	15.	150
.000018	.018	18.	180
.000022	.022	22.	220
.000025	.025	25.	250
.000027	.027	27.	270
.000033	.033	33.	330
.000039	.039	39.	390
.000047	.047	47.	470
.000056	.056	56.	560
.000068	.068	68.	680
.000082	.082	82.	820
.0001	.1	100.	101
.00012	.12	120.	121
.00015	.15	150.	151
.00018	.18	180.	181
.00022	.22	220.	221
.00025	.25	250.	251
.00027	.27	270.	271
.00033	.33	330.	331
.00039	.39	390.	391
.00047	.47	470.	471
.00056	.56	560.	561
.00068	.68	680.	681
.00082	.82	820.	821
.001	1.	1000.	102
.0012	1.2	1200.	122
.0015	1.5	1500.	152
.0018	1.8	1800.	182
.0022	2.2	2200.	222
.0025	2.5	2500.	252
.0027	2.7	2700.	272
.0033	3.3	3300.	332
.0039	3.9	3900.	392

μF	nF	pF	CODE
.0047	4.7	4700.	472
.0056	5.6	5600.	562
.0068	6.8	6800.	682
.0082	8.2	8200.	822
.01	10.	10000.	103
.012	12.	12000.	123
.015	15.	15000.	153
.018	18.	18000.	183
.022	22.	22000.	223
.025	25.	25000.	253
.027	27.	27000.	273
.033	33.	33000.	333
.039	39.	39000.	393
.047	47.	47000.	473
.056	56.	56000.	563
.068	68.	68000.	683
.082	82.	82000.	823
.1	100.	100000.	104
.12	120.	120000.	124
.15	150.	150000.	154
.18	180.	180000.	184
.22	220.	220000.	224
.25	250.	250000.	254
.27	270.	270000.	274
.33	330.	330000.	334
.39	390.	390000.	394
.47	470.	470000.	474
.56	560.	560000.	564
.68	680.	680000.	684
.82	820.	820000.	824
1.	1000.	1000000.	105
1.2	1200.	1200000.	125
1.5	1500.	1500000.	155
1.8	1800.	1800000.	185
2.	2000.	2000000.	205

Calculating some capacitor codes

- The most common capacitor code uses a first digit, second digit, and multiplier scheme:

Example: 223J = $22 \times 10^3 \text{ pF} = 22 \text{ nF}$ = .022 μF 5% Tolerance
 151K = $15 \times 10^1 \text{ pF} = .15 \text{ nF}$ = .00015 μF 10% Tolerance

- Occasionally capacitors will have the value listed very plainly:

Example: 47 pF = 47 pF
 4p7 = 4.7 pF

Common Tolerance Codes:

F	1%
G	2%
J	5%
K	10%
M	20%
Z	+80% / -20%

Conversions:

$$\begin{array}{l} \text{pF} / 1000 = \text{nF} \quad | \quad \text{nF} \times 1000 = \text{pF} \\ \text{nF} / 1000 = \mu\text{F} \quad | \quad \mu\text{F} \times 1000 = \text{nF} \end{array}$$

