

Capacitor Codes

μF	nF	pF	CODE	μF	nF	pF	CODE
.00001	.01	10.	100	.0047	4.7	4700.	472
.000012	.012	12.	120	.0056	5.6	5600.	562
.000015	.015	15.	150	.0068	6.8	6800.	682
.000018	.018	18.	180	.0082	8.2	8200.	822
.000022	.022	22.	220	.01	10.	10000.	103
.000025	.025	25.	250	.012	12.	12000.	123
.000027	.027	27.	270	.015	15.	15000.	153
.000033	.033	33.	330	.018	18.	18000.	183
.000039	.039	39.	390	.022	22.	22000.	223
.000047	.047	47.	470	.025	25.	25000.	253
.000056	.056	56.	560	.027	27.	27000.	273
.000068	.068	68.	680	.033	33.	33000.	333
.000082	.082	82.	820	.039	39.	39000.	393
.0001	.1	100.	101	.047	47.	47000.	473
.00012	.12	120.	121	.056	56.	56000.	563
.00015	.15	150.	151	.068	68.	68000.	683
.00018	.18	180.	181	.082	82.	82000.	823
.00022	.22	220.	221	.1	100.	100000.	104
.00025	.25	250.	251	.12	120.	120000.	124
.00027	.27	270.	271	.15	150.	150000.	154
.00033	.33	330.	331	.18	180.	180000.	184
.00039	.39	390.	391	.22	220.	220000.	224
.00047	.47	470.	471	.25	250.	250000.	254
.00056	.56	560.	561	.27	270.	270000.	274
.00068	.68	680.	681	.33	330.	330000.	334
.00082	.82	820.	821	.39	390.	390000.	394
.001	1.	1000.	102	.47	470.	470000.	474
.0012	1.2	1200.	122	.56	560.	560000.	564
.0015	1.5	1500.	152	.68	680.	680000.	684
.0018	1.8	1800.	182	.82	820.	820000.	824
.0022	2.2	2200.	222	1.	1000.	1000000.	105
.0025	2.5	2500.	252	1.2	1200.	1200000.	125
.0027	2.7	2700.	272	1.5	1500.	1500000.	155
.0033	3.3	3300.	332	1.8	1800.	1800000.	185
.0039	3.9	3900.	392	2.	2000.	2000000.	205

Calculating additional capacitor codes

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

Example	223J	= 22 x 10 ³ pF	= 22 nF	= .022 μF	5% Tolerance
	151K	= 150 pF	= .15 nF	= .00015 μF	10% Tolerance

Occasionally capacitors will have the value listed very plainly:

Example	47 pF	= 47 pF			
	4p7	= 4.7 pF	(like the resistor values where the 'M' or 'k' split the numbers to indicate a decimal point)		

Common Tolerance Codes:			Prefix	Abbr	Multiplier	Conversions		
						TO		
F	1%		pico	p	10 ⁺¹²	micro	nano	pico
G	2%		nano	n	10 ⁺⁹			
J	5%		micro	μ	10 ⁺⁶	FROM		
K	10%					micro	x 1000	x 1000000
M	20%					nano	/ 1000	x 1000
Z	+80% / -20%					pico	/ 1000000	/ 1000