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Capacitor value calculator pdf

Code	Tolerance	Code	Tolerance
A	$\pm 0.05 \text{ pF}$	K	$\pm 10 \%$
B	$\pm 0.1 \text{ pF}$	L	$\pm 15 \%$
C	$\pm 0.25 \text{ pF}$	M	$\pm 20 \%$
D	$\pm 0.5 \text{ pF}$	N	$\pm 30 \%$
E	$\pm 0.5 \%$	P	-0 to 100 %
F	$\pm 1 \%$	S	-20 to 50 %
G	$\pm 2 \%$	W	-0 to 200 %
H	$\pm 3 \%$	X	-20 to 40 %
J	$\pm 5 \%$	Z	-20 to 80 %



PHONE: (07) 3846 5666 **FAX: (07) 3846 4701** www.GOcompany.com.au **NO WARRANTY APPLIES** TO PASSIVE COMPONENTS

PAGE 2:9 **CAPACITOR VALUES**

MICROFARAD

CONVERSION CHART

MICROFARAD	NANOFARAD	PICOFARAD	EURO	USA	COLOUR BAND
0.001uF	1.0nF	1000pF	1n0	102	BROWN-BLACK-RED
0.0012uF	1.2nF	1200pF	1n2	122	BROWN-RED-RED
0.0015uF	1.5nF	1500pF	1n5	152	BROWN-ORANGE-GREEN
0.0018uF	1.8nF	1800pF	1n8	182	BROWN-GREY-RED
0.0022uF	2.2nF	2200pF	2n2	222	RED-RED-RED
0.0027uF	2.7nF	2700pF	2n7	272	RED-VIOLET-RED
0.0033uF	3.3nF	3300pF	3n3	332	ORANGE-ORANGE-RED
0.0039uF	3.9nF	3900pF	3n9	392	ORANGE-WHITE-RED
0.0047uF	4.7nF	4700pF	4n7	472	YELLOW-VIOLET-RED
0.0056uF	5.6nF	5600pF	5n6	562	GREEN-BLUE-RED
0.0068uF	6.8nF	6800pF	6n8	682	BLUE-GREY-RED
0.0082uF	8.2nF	8200pF	8n2	822	GREY-RED-RED
0.1uF	10nF	10000pF	10n	103	BROWN-BLACK-ORANG
0.12uF	12nF	12000pF	12n	123	BROWN-RED-ORANGE
0.15uF	15nF	15000pF	15n	153	BROWN-GREEN-ORANGE
0.18uF	18nF	18000pF	18n	183	BROWN-GREY-ORANGE
0.22uF	22nF	22000pF	22n	223	RED-RED-ORANGE
0.27uF	27nF	27000pF	27n	273	RED-VIOLET-ORANGE
0.33uF	33nF	33000pF	33n	333	ORANG-ORANG-ORANGE
0.39uF	39nF	39000pF	39n	393	ORANG-WHITE-ORANGE
0.47uF	47nF	47000pF	47n	473	YELLOW-VIOLET-ORANGE
0.56uF	56nF	56000pF	56n	563	GREEN-BLUE-ORANGE
0.68uF	68nF	68000pF	68n	683	BLUE-GREY-ORANGE
0.82uF	82nF	82000pF	82n	823	GREY-RED-ORANGE
0.1uF	100nF	100000pF	1u1	104	BROWN-BLACK-YELLOW
0.12uF	120nF	120000pF	1u2	124	BROWN-RED-YELLOW
0.15uF	150nF	150000pF	1u5	154	BROWN-GREEN-YELLOW
0.18uF	180nF	180000pF	1u8	184	BROWN-GREY-YELLOW
0.22uF	220nF	220000pF	1u2	224	RED-RED-YELLOW
0.27uF	270nF	270000pF	1u7	274	RED-VIOLET-YELLOW
0.33uF	330nF	330000pF	1u3	334	ORANG-ORANG-YELLOW
0.39uF	390nF	390000pF	1u9	394	ORANGE-WHITE-YELLOW
0.47uF	470nF	470000pF	1u7	474	YELLOW-VIOLET-YELLOW
0.56uF	560nF	560000pF	1u6	564	GREEN-BLUE-YELLOW
0.68uF	680nF	680000pF	1u8	684	BLUE-GREY-YELLOW
0.82uF	820nF	820000pF	1u2	824	GREY-RED-YELLOW
1.0uF	1000nF	1000000pF	1u	105	BROWN-BLACK-GREEN
1.2uF	1200nF	1200000pF	1u2	125	BROWN-RED-GREEN
1.5uF	1500nF	1500000pF	1u5	155	BROWN-GREEN-GREEN
1.8uF	1800nF	1800000pF	1u8	185	BROWN-GREY-GREEN
2.0uF	2000nF	2000000pF	2u	205	RED-BLACK-GREEN
2.2uF	2200nF	2200000pF	2u2	225	RED-RED-GREEN
3.3uF	3300nF	3300000pF	3u3	335	ORANG-ORANG-ORANG
4.7uF	4700nF	4700000pF	4u7	476	YELLOW-VIOLET-GREEN
5.6uF	5600nF	5600000pF	5u6	566	GREEN-BLUE-GREEN
6.8uF	6800nF	6800000pF	6u8	685	BLUE-GREY-GREEN
8.2uF	8200nF	8200000pF	8u2	825	GREY-RED-GREEN
10.0uF	10000nF	10000000pF	10u	106	BROWN-BLACK-BLUE
15.0uF	15000nF	15000000pF	15u	156	BROWN-GREEN-BLUE
18.0uF	18000nF	18000000pF	18u	186	BROWN-GREY-BLUE
20.0uF	20000nF	20000000pF	20u	206	BROWN-BLACK-BLUE
22.0uF	22000nF	22000000pF	22u	226	RED-RED-BLUE
33.0uF	33000nF	33000000pF	33u	336	ORANG-ORANG-BLUE
47.0uF	47000nF	47000000pF	47u	476	YELLOW-VIOLET-BLUE
56.0uF	56000nF	56000000pF	56u	566	GREEN-BLUE-BLUE
68.0uF	68000nF	68000000pF	68u	686	BLUE-GREY-BLUE
82.0uF	82000nF	82000000pF	82u	826	GREY-RED-BLUE
100.0uF	100000nF	100000000pF	100u	107	BROWN-BLACK-VIOLET
220.0uF	220000nF	220000000pF	220u	227	RED-RED-VIOLET



So, for example, if you simply see a '6' on the capacitor, then this equals a value of 6 picofarads (pF). So, for example, if the digits are '684', this equals a capacitance value of 680nF. MORE FROM QUESTIONSANSWERED.NET This capacitor code calculator calculates the capacitance value of the capacitor if the code is input or calculates the code of the capacitor if the capacitance value is input. The first 2 digits are '10' and the multiplier factor is 1,000,000, so the value is 10,000,000pF or $10\text{pF} \times 1,000,000 = 10,000,000\text{pF} = 10\text{nF}$. It's helpful when refinancing and when tapping into the home's equity, as well. Both parts of each calculator work separately - you do not have to enter both value code and tolerance code. This is because ceramic capacitor values range from 1pF to 99nF . Many online lenders and real estate sites offer these tools, which are commonly referred to as automated valuation models. Keep reading to learn how to calculate your house value. Are There Online Tools to Calculate a Home's Value? You can use online valuation tools to help you calculate your home's value. The norm which you will see with ceramic capacitors, though, is that they will have 3 digits. Electrolytic capacitors simply have the value of the capacitor directly on them. If the capacitor's last digit is 6, this equals a multiplier factor of 1,000,000. It's also important to look for ones that are in the same condition as your home. Doing a comparable appraisal is often referred to as pulling comps. The first 2 digits are '68' and the multiplier factor is 100,000, so the value is 6,800,000pF or 6.8nF ($68\text{pF} \times 100,000 = 6,800,000\text{pF} = 6.8\text{nF}$). It tracks how much your house has changed in value from one sales transaction to the next. If you're selling your home, many agents will offer a competitive market analysis for free in hopes that you will hire them as your agent. What Is the FHFA House Price Index Calculator? For a more scientific approach to determining your home's value, you can use the FHFA house price index calculator, also commonly referred to as an HPI calculator. For example, let's assume that you pull comps for these five homes, and the selling price for each home is as follows: \$200,225 \$189,658 \$215,698 \$195,875 \$202,114 The average between the selling prices is \$200,714. Ceramic capacitors are encoded because they have less surface area on their frame. The tool taps into millions of mortgage transactions that have taken place since the 1970s to calculate how much your home is worth. So, for example, if the digits are '680', this equals a capacitance value of 68pF. The first 2 digits are '68' and the multiplier factor is 10,000, so the value is 680,000pF or 680nF ($68\text{pF} \times 10,000 = 680,000\text{pF} = 680\text{nF}$). Know that the first 2 digits represent the value in picofarads and the 3rd digit is the multiplier factor of the first 2 digits to give the final capacitance value. The first 2 digits are '68' and the multiplier factor is 100, so the value is 6800pF, or 6.8nF ($68\text{pF} \times 100 = 6800\text{pF} = 6.8\text{nF}$). So any of these can be entered and the calculator will recognize them. So, for example, if the digits are '683', this equals a capacitance value of 68nF. So this is how capacitor code values work. So, for example, if the digits are '682', this equals a capacitance value of 6.8nF . So the ceramic capacitor encoding system has 1-3 digits. Then, using advanced mathematical modeling, the tools calculate your home's value according to recent sale prices of other homes in the area. This is the value at what you would deem your house being worth. If a capacitor has a third digit of 4, this equals a multiplier factor of 10,000. Related Resources Series and Parallel Capacitor Calculator Capacitance Calculator Capacitor Charge Calculator Capacitor Current Calculator Capacitor Voltage Calculator (from current) Capacitor Voltage Calculator (from charge) Capacitor Impedance Calculator Capacitor Charging Calculator Capacitor Discharge Calculator Capacitor Energy Calculator Capacitor Voltage Divider Calculator Capacitor Bypass Capacitor Calculator Capacitor Equations If you're wanting to sell your home quickly, having the appraisal out of the way is a great way to accomplish this goal. Details of capacitor markings can be found in the technical data section. The last digit can range in values from 0 to 6. Get a Professional Appraisal Many homeowners go the traditional route of getting a professional appraisal to determine the value of their home. Therefore, you will not see capacitor codes greater than 100nF . If the capacitor only has 2 digits, the capacitance value are those 2 digits in picofarads. The tools will access online public records relating to your house, including deeds of ownership and tax assessments. Often, current listing prices of other homes are used, as well. A competitive market analysis is another excellent way to determine your home's value. So, for example, if the digits are '681', this equals a capacitance value of 680pF. The first 2 digits are '68' and the multiplier factor is 1000, so the value is 68,000pF, or 68nF ($68\text{pF} \times 1000 = 68,000\text{pF} = 68\text{nF}$). The first 2 digits are '68' and the multiplier factor is 1, so the value is 68pF ($68\text{pF} \times 1 = 68\text{pF}$). So, for example, if the digits are '685', this equals a capacitance value of 6.8nF . However, keep in mind that the calculator doesn't account for inflation. To convert from a capacitance value to a code value, the drop-down box should be set to 'Value'. The capacitor code calculator is used for ceramic capacitors. Convert Codes to Values: Convert Values to Codes: All the online calculators and more in a stand-alone application Converts Resistor & Inductor colour codes, calculates LED series resistors, capacitance units, series / parallel resistors & capacitors, frequency, reactance & more Calculation of nearest preferred resistor values with a choice of 5 series from E12 to E192 Print & save calculation results Click here to download Electronics Assistant FREE! Knowing your home's value helps you determine a list price if you're selling it. The first 2 digits are '68' and the multiplier factor is 10, so the value is 680pF ($68\text{pF} \times 10 = 680\text{pF}$). From there, it takes into account market value fluctuations to give its estimate. As stated, this capacitor can convert a code value to the capacitance value or converter the capacitance value to its equivalent code value. If a capacitor has a third digit of 2, this equals a multiplier factor of 100. To convert from a code value to a capacitance value, the drop-down box should be set to 'Code'. The first 2 digits are values of the capacitor in picofarads and the third digit is the multiplier factor. You are looking at the selling price of comparable properties and then finding the average. If the capacitor's last digit is 5, this equals a multiplier factor of 100,000. Why? The calculator recognizes the following units: picofarads, pF, nanofarads, nF, microfarads, uF, or nF . To enter a value simply, type in the numerical value and then the units. Rarely do they exceed this. So, for example, if the digits are '106', this equals a capacitance value of 10nF . Simply go online and look at homes in your local area that are similar in size and amenities. These calculators can convert the 3-digit value codes and alphabetical tolerance codes found on some capacitors into the corresponding value and vice-versa. Because most lenders require an appraisal before approving a buyer for a mortgage. If the capacitor only has 1 digit, the capacitance value is that 1 digit in picofarads. If a capacitor has a third digit of 1, this equals a multiplier factor of 10. If a capacitor has a third digit of 0, this equals a multiplier factor of 1. Again, for last digit cannot be greater than 6. Still yet, even if you're not selling, you can always turn to a professional appraiser to perform an appraisal on your home. Look at Comparable Properties Lastly, another effective way to calculate how much your home is worth is to perform a comparable analysis. Ceramic capacitors are the type of capacitors that use this encoding system. The value cannot exceed 6 for the third digit. If a capacitor has a third digit of 3, this equals a multiplier factor of 1000. So, for example if you see '68' on the capacitor, then this equals a value of 68 picofarads (pF). A qualified real estate agent will perform deep analysis to estimate the home's value, with much of the analysis based on current selling and listing prices of homes in the same and nearby areas.

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