Is it better to have a larger capacitor value

Should I use a bigger capacitor or a smaller capacitor?
It depends entirely on what the purpose of the capacitor in the circuit is for. For many cases,using a 5x larger capacitor is just fine,but in other cases it would be better to use a smaller capacitorthan a larger one. In other cases (such as if the capacitor is part of a timing circuit),you need to stay close to the original value.

Should a capacitor be near the original value?
In other cases (such as if the capacitor is part of a timing circuit),you need to stay close to the original value. The parasitics of the two are going to be different and in many applications this won't matter at all,but in others it might cause all kinds of problems.

Does the size of a capacitor affect voltage rating?
In most circumstances,the physical size of the capacitor is directly proportionalto the voltage rating. A motor will not run properly if the capacitor is not of the appropriate size. This is not to say that greater is better,because an overly large capacitor might increase energy usage.

Do high voltage capacitors give longer life?
Higher voltage capacitors will generally give longer life. If getting old stock capacitors on ebay you better get higher voltage caps in order for them to survive without going through the process of reforming. Stubby capacitors of the same value as tall ones usually have a higher ESR.

How to choose a capacitor?
For precise applications,a lower-tolerance capacitor should be chosen since a higher-tolerance capacitor is not appropriate. There are capacitors available with the same capacitance but varying amounts of tolerance. The capacitance value determines the physical size of the capacitor; as the capacitance rises,the size expands.

Should I use three different value capacitors?
If the recommendation in the spec is to use three different value capacitors, chances are good the engineer who wrote the spec never did any analysis and is using a 50-year-old design guideline based on the myth of the high-frequency capacitor.

Is it better to use a bigger or smaller capacitor? Ans: Larger capacitors are frequently used for lower frequencies whereas smaller capacitors are used for higher frequencies. The tendency is not general, especially for DC bias, thus it ...

As to the question itself, no quick answer is possible. It depends entirely on what the purpose of the capacitor in the circuit is for. For many cases, using a 5x larger capacitor is just fine, but in other cases it would be better to ...

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In many cases, using a higher value capacitor is perfectly acceptable and often necessary to meet the circuit"s requirements. As long as the capacitor"s voltage rating and physical size fit within ...

Higher voltage capacitors often have larger capacitance values, allowing for the storage of more energy. This can be beneficial in circuits that require high energy storage or ...

Right now I don"t have a 820 µF capacitor in my home and also don"t have enough time to buy a new capacitor. I have two 470 µF capacitors rated at 16 volts. The damaged capacitor is located near a RAM socket of the motherboard. Can I use a combination of two 470 µF capacitors that is almost 940 µF? Is it safe to use higher value capacitors ...

When switchmode supplies went up to 50 kHz, and a suitable ideal-capacitor value was (again for 1A output) about 2.2 uF, 1 ohm ESR means that same 1W would be dumped into a capacitor the size of a pea. It"d fail, because it"s too small to dissipate one watt of heat. That isn"t the full story (there might be local heating "hot spots" even if the average dissipation ...

It is typical for large value electrolytic capacitors (greater than 1uF) to have a tolerance of 20% if not otherwise stated. If your measured value is within ±20% then that may be considered acceptable. It is also typical for new, unused large value electrolytic capacitors to have measured values that are +20% over the nominal value.

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