

Which dielectric is right for your application?

Use the chart below as a handy guide by first locating your tolerance for instability on the horizontal axis. Then move upward vertically to the capacitance value range of interest.





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Avoid these common pitfalls when specifying SMD capacitors

Reduce your footprint

Evox Rifa boxed SMD film capacitors can be packaged on tape for either horizonal

or vertical mounting. When mounted vertically the required footprint is reduced considerably. For example a capacitor of size 4036 becomes 4022, a footprint reduction of nearly 40%.

hoose the type carefully

Surface Mount Capacitors

In lower C-values (typically <1000pF) NPO ceramics are the best choice. In larger C-values an NPO may neither be as cost-effective nor as small as a film capacitor. If a film cap is chosen one may choose between wound and stacked construction. Stacked can be economical in small



sizes, but larger stacked film capacitors may delaminate. That is, the layers may peel off with heat and moisture. They are also more sensitive to the environment. Where these problems exist use a wound film capacitor.

Dielectrics and technologies

hermal expansion stress

In the larger sizes ceramic capacitors (or their solder joints) may crack due to lower coefficients of thermal expansion compared to the PC board. Evox Rifa boxed SMD film capacitors have flexible electrodes to minimize thermal expansion stress.



Need an SMD Y capacitor?



Check out the Y2 capacitor SMP253 with complete safety

agency approvals. Made of metallized impregnated paper, SMP253 exhibits excellent self-healing properties to minimize the risk of short circuit. SMP253 can be vertically mounted. ead-free soldering & RoHS



Evox Rifa SMD caps have been Pb-free for more than 10 years. Now Evox Rifa has created new versions with peak reflow soldering temperatures of up to 260°C.

