

Timing capacitors in SMPS – Using Film Capacitors Instead of NPO Ceramics.

By Andy Bellavia

Designers of switched mode power supplies often use an NPO ceramic capacitor to set the power supply switching frequency. However Evox capacitor series PFR5 can provide a lower cost alternative.

PFR5 is constructed of polypropylene film and metal foil in a winding especially designed for stability. The curve of capacitance vs. temperature is negative and varies by less than 1% over a typical SMPS operating temperature range. The available capacitance range is 100pF to 0.022 μ F with a rated voltage of 63VDC. Voltages up to 1000VDC are available.

Complete specifications for PFR5 can be obtained by contacting Evox-Rifa and asking for the complete capacitor catalog. The catalog pages may also be obtained directly from the Evox-Rifa Web site: <http://www.evov-rifa.com>.

Do you prefer a surface mount package? Check out Evox series SMC.

Schematic Diagram of a Typical SMPS

