

METALLIZED POLYPROPYLENE WRAP AND FILL CAPACITORS

APPLICATIONS

Motor Run ---- Power Supplies ---- Filters ---- Snubbers ---- Lighting ---- Battery Chargers ---- and other ' AC ' or ' DC ' applications.

CONSTRUCTION

The "FILMET" capacitor is constructed using low loss polypropylene film dielectric on which a thin layer of metal has been deposited to one side to serve as the electrode. The two sheets are displaced forming a low loss non-inductive (extended foil) capacitor. Both ends of the winding are spray-metallized to provide a means to attach the copper wires. The thin layer of metal which is deposited on the film dielectric not only replaces the conventional aluminum foil electrodes but is self-healing, resulting in higher operating voltages and longer life. This is not a hermetic seal and may not be suitable for high humidity applications.

CHARACTERISTICS

Polypropylene film is a low loss dielectric possessing high voltage stress capabilities. These characteristics allow the polypropylene "FILMET" capacitor to consume less energy and result in smaller physical size per volt-ampere.

CAPACITANCE

The capacitance is rated in microfarads (MF) at 25°C. The capacitance change over the operating temperature range of -40°C to +90°C shall not exceed $\pm 5\%$.

DISSIPATION FACTOR

The dissipation factor shall not exceed 0.1% when measured at the 60 HZ rated voltage and any case temperature between 25°C and 90°C.

TEMPERATURE

The operating case temperature range is -40°C to +70°C. However, the 70°C capacitors may be operated up to 90°C maximum hot spot case temperature with proper voltage derating.

FREQUENCY

The capacitor may be operated at any sinusoidal frequency up to 66 HZ.

LIFE

The capacitors are designed to provide a minimum of 60,000 hours life with a 94% survival when operated at rated voltage, frequency, and case temperature. Exceeding the capacitor ratings without proper derating will result in a reduction of full rated life.

CAUTION

The capacitor user must examine his application and installation to take appropriate action to minimize the potential flammability hazard associated with end of life capacitor failures.