

1000VDC and 1200VDC Multilayer Polymer (MLP) Film Capacitors

Powering Innovation with Stacked Multilayer Precision

Paktron's high voltage capacitors stand out in the industry due to their innovative stacked multilayer polymer (MLP) construction. This unique design approach sets them apart from conventional high voltage wound film capacitors, offering several key advantages:

Key Features

Stacked multilayer construction

Unique advantages over conventional wound film capacitors

- Higher frequency operation
- Ultra-low ESR and ESL
- High dv/dt

Self-Encased Design

- Volumetrically efficient square shape
- Lightweight, higher capacitance density compared to boxed, wound capacitors
- Mechanically resilient body

Ultra-High ripple current ratings

- Ultra-low D.F. due to stacked construction, specialty dielectrics
- Unique design improves heat dissipation

High stability

- Zero DC bias derating
- Low temperature coefficients
- 20+ year life expectancy without significant cap degradation

Wide Operating Temperature range

- -55°C to +125°C, vs polypropylene
[-55°C to 85°C [105°C]]: stable parameters across this range

Self-Healing

- During a fault condition, the affected area of the capacitor is "cleared", isolating the fault and allowing the capacitor to continue to operate as normal
- Mechanically flexible, no susceptibility to piezoelectric effect, surge cracking

Standard values

- Corresponding to the needs of wide bandgap switching applications
- Custom values available



Applications

■ Wide bandgap semiconductor applications

Power Electronics

Inverters, converters, and power supplies

■ Renewable Energy Systems

Particularly in photovoltaic (PV) inverters for solar energy

■ Electromobile (EV) power trains

For power conversion and energy storage

■ Industrial Motor Drives

To manage high-voltage power distribution

■ High-frequency switching circuits

Leveraging their low ESR (Equivalent Series Resistance) characteristics

■ Snubber circuits

To suppress voltage spikes in switching applications

■ DC link applications

For smoothing and energy storage in power conversion systems

■ Medical imaging equipment

In high-voltage power supplies for X-ray and MRI machines

■ Pulsed power applications

For energy storage and discharge in scientific and industrial equipment

Lead Times 8-10 weeks, less in some cases

Manufactured in USA

Evans GROUP Trusted Brands. Single Source.
Hi-Rel Capacitors for Mission Critical Systems.

Uniting four industry leaders—Evans, Paktron, UTC, and Eulex—Evans Group delivers the industry's most specialized and comprehensive capacitor portfolio. Together, we provide power-dense, high-reliability solutions engineered for mission-critical environments across defense, aerospace, energy, and advanced RF systems.

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