

# **CDE 951C Axial-Leaded and 953B Box-Radial Segmented AC Film Capacitors**

*UL recognized, metalized  
polypropylene capacitors for inverter,  
UPS and other AC applications*



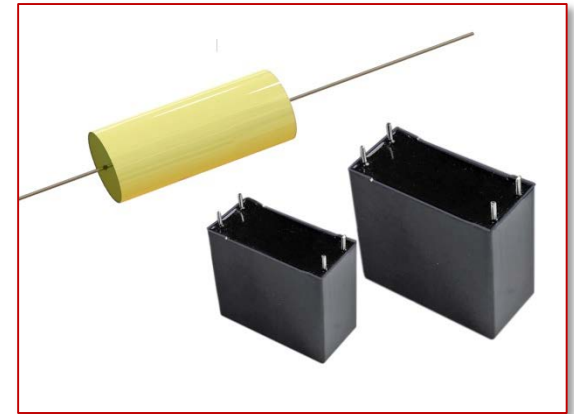
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# CDE 951C and 953B Metalized Polypropylene Film Capacitors

While different in form factor, they have similar performance characteristics.

- The 951C has a cylindrical body with axial leads, while the 953B has a rugged radial box form factor.
- Each features an integrated fused metalization pattern and UL 810 recognition for fail-safe operation.
- Rated at 85 °C for 10,000 hours



# 951C and 953B Series key performance parameters

- Capacitance range--
  - 951C: 0.825 $\mu$ F to 40 $\mu$ F
  - 953B: 2.5 $\mu$ F to 50 $\mu$ F
- Voltage ratings from 160 Vac to 275 Vac
- Low dissipation factor
- Self-healing
- Benign failure mode
- UL 810 recognition assures fail-safe operation



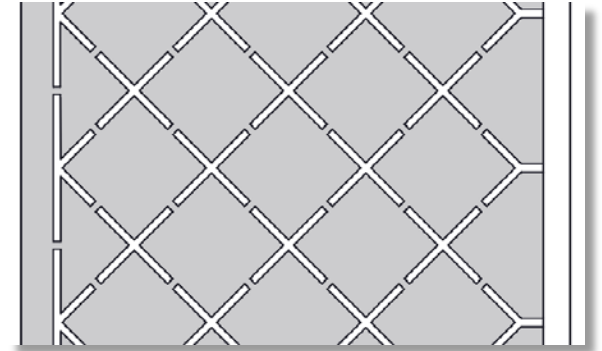
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# Both capacitors offer a fused, segmented metallization pattern.

The 951C and 953B can withstand surges that would cause other capacitors to fail. Built-in fuse-links limit capacitance loss to a small segment within the capacitor.

- Protects capacitor from total failure
- Electrode “pads” are interconnected by very small paths of electrode metal which also serve as “fuses”
- Allows withstand of very-high line transients and continue working



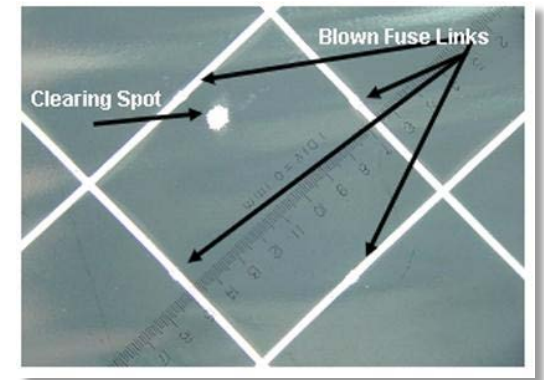
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# Both capacitors offer a fused, segmented metallization pattern.

In the event of a fault, the clearing will be limited to the area of the pad.

- Blown fuses isolate the fault
- Circuit interruption is almost instantaneous
- Provides significant circuit protection
- Capability not usually available for board-mounted devices.



# The performance needed for today's demanding AC power missions.

Both capacitors will excel at providing reliable filtering and smoothing, with fault protection in UPS/AC devices.

- Handles constant exposure to high-amplitude power line noise and large voltage spikes
- Voltage ratings have availabilities at 160, 250 and 275Vac.
- -40 to 85°C performance
- UL 94V-0 rated for flammability.
- 10,000 hour service-life expectancy without derating



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# Applications in Hot Markets.

CDE 951C and 953B capacitors will excel at providing reliable filtering and smoothing for applications in:

- UPS systems
- Inverters
- AC power supplies
- General AC filtering applications

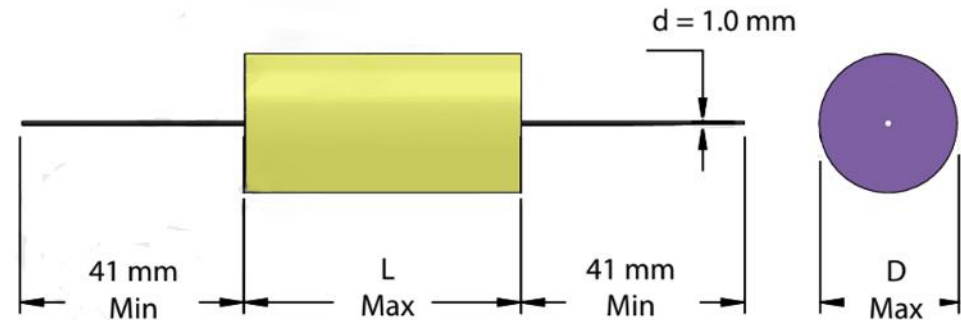
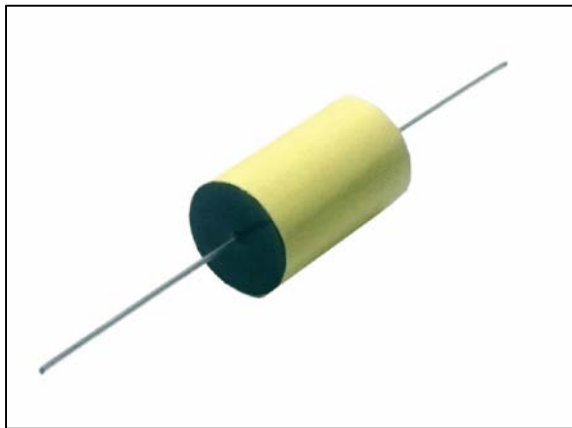


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# 951C Design Characteristics

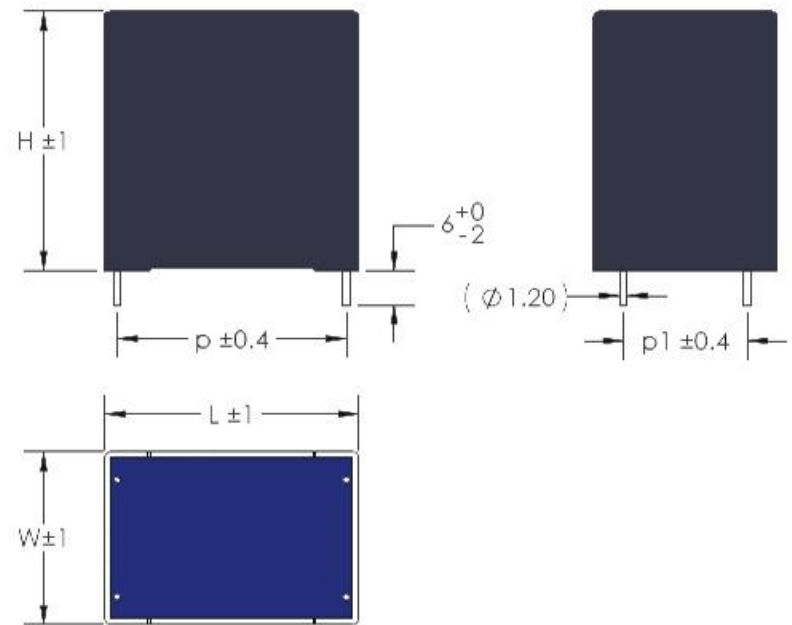
- Axial-leaded, cylindrical package
- Durable, UL510 Polyester tape wrap and fill construction
- UL94V-0 epoxy end fill
- Length and diameter vary, depending on values
- 18 AWG tin plated wire leads





# 953B Design Characteristics

- Radial-leaded box construction
- Six box sizes with lead pitch from 37.5 to 52.5mm
- Plastic UL94V-0 case with UL94V-0 epoxy end fill
- Four 16 AWG wire leads
- Size varies depending on value



# CDE 951C and 953B Metalized Polypropylene Film Capacitor Summary

- Cylindrical or box form factors, with similar performance
- Integrated fused metalization pattern and UL 810 recognition for fail-safe operation.
- For inverter, UPS and other AC filtering applications
- -40 to 85°C performance
- 10,000 hour service life at rated voltage

