High Current, High Voltage AC Capacitors – Radial/ Axial

Featuring axial leads, these capacitors allow for secure, inline mounting, making them suitable for compact and space-constrained applications. They offer high capacitance values and low equivalent series resistance (ESR), crucial for effective noise reduction and signal filtering. Designed to handle high ripple currents and voltage variations, they are ideal for use in power supplies, inverters, and motor drives. Overall, AC Filter Capacitors with axial leads ensure reliable performance and enhance the stability and efficiency of AC circuits.

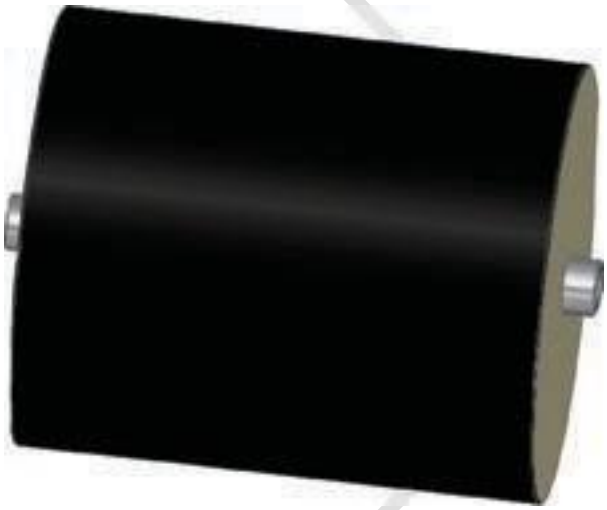
Technical Data

Applications: Power supplies, AC motors, and power factor correction.

Voltage Range: Up to 3000 V AC.

Safety:

- Pressure relief mechanisms
- Short circuit protection
- Integrated thermal protection



Construction

- Dielectric: Metallised Polypropylene film
- Non-PCB, Impregnation - Biodegradable Soft PU Resin
- Aluminium or Plastic Case

Features

- High reliability
- Low ESR
- Excellent thermal performance
- High Current handling
- High Ripple Current Handling
- Voltage Variation Tolerance
- Durable Construction

Technical data and Specifications:

Capacitance Value	Upto 50 uF
Tolerance	± 10 %
Voltage Rating	Upto 3000 V AC
tan δ0 (dielectric)	2x10-4
Voltage test between terminals	
V (Terminal to Terminal)	1.5 X U_{RMS}, 2 sec
Voltage test between terminals and case	
V (Terminals and Case) (Uiso)	2*Ui + 1000 V or 2000 V whichever is the highest value for 10 seconds
TMIN	-40 ºC
TMAX	+70 ºC
Storage temperature	-40 ºC to +85 ºC
Hot Spot temperature	+85 ºC
Maximum Humidity	Max. 95% (non-condensing)
Life Expectancy	up to 100,000 hours * Greater life expectancy can be offered based on customer request
Impregnation	Biodegradable PU resin
Mounting position	Any
Terminals Type	As per customer requirement
Enclosure material	Aluminium / Plastic
Reference Standard	IEC 61071 / IEC 61881