

ALH Series Long-Life, AC Filtering Capacitors For Harsh Environments



1,500-hour, 85°C /85% RH

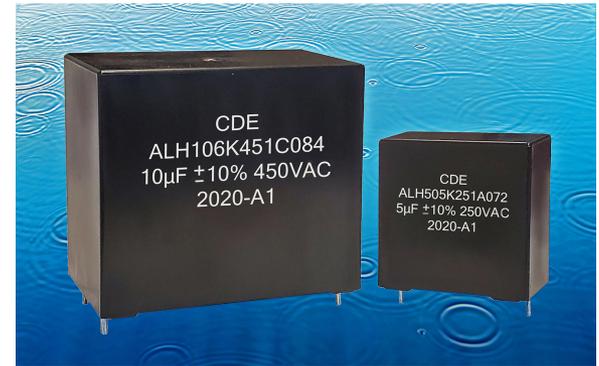


**CORNELL
DUBILIER**

ALH AC Filtering Capacitors For Harsh Environments

ALH Series raises the bar on THB-rated performance for board-mount AC harmonic filter capacitors:

- 50% greater life than other 85/85 THB-rated capacitors.
- 1,500-hour load life based on 85 °C at 85% relative humidity with rated voltage applied.
- Able to withstand harsh, humid conditions.
- High capacitance with high ripple current
- Self-healing for added reliability



ALH Series Key Performance Parameters

- Optimized for AC harmonic filtering on the input and output of inverter circuits
- Capacitance ranges from 0.22 to 50 μF at 160-450 Vac, 50/60Hz
- High rms current ratings for handling higher-ordered harmonics
- Suitable for high-frequency applications
- Meets IEC6101, AEC-Q200 and RoHS
- UL Recognized, Construction, E128034



High Performance for a Variety of Power Electronics Applications

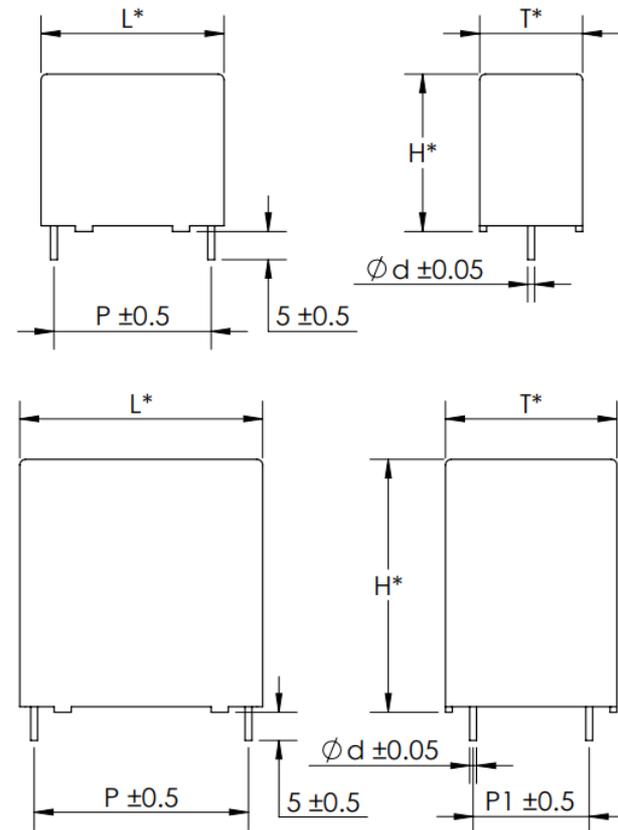
General applications include:

- Solar, EV, and other inverters that are subjected to the harshest natural environmental conditions.
- Backup, UPS, and portable power systems.
- Motor drives
- Traction and other transportation systems.
- AC-tuned harmonic reduction filters.



ALH Series Case Sizes and Lead Configurations

- Case sizes, vary based on values/ratings, ranging from 32x20x11 up-to 57.5x50x35 mm
- Two or four-pin lead configurations
- Plastic case and dry resin meet UL94V-0
- Tin-plated copper terminals



* ± 0.8 for $L \leq 42.5$ mm
 ± 1.0 for $L = 57.5$ mm

ALH Series

Specifications Summary

Capacitance Range	0.22 to 50 μ F
Capacitance Tolerance	\pm 10% standard , \pm 5% optional
Rated Voltage	160 to 450 Vac
Operating Temperature Range	-40 °C to 105 °C (>85 °C derate voltage 1.35% per °C)
Test Voltage between Terminals	150% equivalent DC voltage (1.414 x Vac) for 10s
Test Voltage between Terminals and Case	3 kVac @ 50/60 Hz for 10 s
Insulation Resistance	\geq 30,000 M Ω x μ F @ 100 Vdc 25 °C after 1 minute
Life Expectancy	100,000 h @ 70°C hot spot, rated voltage
THB Rating	85 °C / 85% RH - rated voltage - 1500 h
Reference Standards	IEC 61071, AEC-Q200 qualified

Construction Details	
Case Material	Plastic UL94V-0
Resin Material	Dry Resin UL94V-0
Terminal Material	Tin Plated Copper


 UL Recognized E128034
 construction only - unprotected

ALH Series 85/85 THB Rated Film Capacitor Summary

- 50% greater life than other AC 85/85 THB-rated capacitors
- 1,500 hour load life based on 85 °C at 85% R.H @with rated voltage applied
- IEC6101, AEC-Q200, RoHS
- UL Recognized
- High capacitance with high ripple current
- Self-healing for reliability
- Ideal for inverter, UPS, and other power applications

