ALC10 Series 85°C



- Compact size
- Long Life, 18000 hours at 85°C (Ur, Ir applied)
- High ripple current
- Excellent surge voltage capability
- · Optimized designs available on request

APPLICATION

BASIC DESIGN

They are ideally suited for industrial and commercial applications demanding high reliability and long life expectancy such as frequency converters, UPS systems and switch mode power supplies.

The ALC10 series of snap-in capacitors cover a wide range of case sizes and voltage ratings featuring high ripple current and surge voltage capability and very long life performance.

SPECIFICATION		
Standards	IEC 60384-4 Long Life Grade 40/85/56,	
Capacitance range	56 – 82000 μF	
Capacitance tolerance	–20 to +20%	
Rated voltage U _R	40–500 VDC	
Surge voltage U _s	1.15 x U_R (for $U_R \le 250$ VDC) 1.10 x U_R (for $U_R \ge 350$ VDC)	Test Condition: ≤ 30s surge, 1000 cycles @ 85°C
Surge voltage U _{ss} (Short duration)	U _R U _{SS} 200 350 250 400 350 500 400 520 415 530 450 550 500 600	Test Condition: ≤ 500ms surge, 100 cycles @ 20°C
Leakage current I _L	= $0.006 \times C_R \times U_R$ (µA) or 6mA whichever is the smaller. Note, C_R is in µF.	Test Condition: U _R , 5mins., 20°C
Operational life time +85°C, U _R , I _R +85°C, U _R	Can Diameter 25 10000 hrs 30 13000 hrs 35 15000 hrs 40, 45, 50 18000 hrs Can Diameter	End of Life requirement:
	25 16000 hrs 30 21000 hrs 35 24000 hrs 40, 45, 50 29000 hrs	
Shelf Life	2000 hrs at 0V +85°C, or 30000 hrs at 0V +40°C	
Temperature range	-40 to +85°C (Operating) -55°C to +85°C (Storage)	

