



# Snap-In Aluminum Electrolytic Capacitors

## ALC10 Series, 85°C



### Why Choose KEMET

KEMET Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

### Features & Benefits

- Extended temperature range allows increased ripple currents at lower temperatures
- High operating voltage of 550 VDC
- Compact size
- Very long operational life, up to 18,000 hours at +85°C ( $V_R, I_R$  applied)
- High ripple current
- Excellent surge voltage capability
- Optimized designs available upon request
- Option of 400 VDC low ESR electrolyte (custom designs only)
  - Reduces ESR by up to 30%
  - High operating voltage of 400 VDC
  - Long life due to lower heat generation
  - High ripple current
  - Good surge voltage capability

### Product Checklist

- What are the operational conditions of your application? Do you have a specification available?
  - What is the applied voltage VDC?
  - What is the operational temperature?
  - What is the applied ripple current spectrum?
  - What life expectancy is required?
  - What are the end of life criteria?
- Does the application have size constraints? If so, what are they?
- Does the application require UL recognized sleeving?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

### Programs Supported

- Uninterruptible power supply (UPS)
- Switch mode power supplies (SMPS)
- Smoothing
- Energy storage
- Demanding power supplies
- Frequency inverters



### Electrical/Physical Characteristics

Case Size	Tolerances	Dielectric	Temperature Range	Voltage Options	Capacitance Values
25 to 50 mm diameter, 30 to 105 mm lengths	±20% at 100 Hz +20°C	Aluminum Electrolytic	-40°C to +85°C	35 – 550 VDC	56 – 82,000 $\mu$ F

### Ordering Information

ALC10	A	392	BB	040												
Series	Termination	Capacitance Code ( $\mu$ F)	Size Code	Rated Voltage (VDC)												
Snap-In Aluminum Electrolytic	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	<table border="0"> <tr><td>035 = 35</td><td>350 = 350</td></tr> <tr><td>040 = 40</td><td>400 = 400</td></tr> <tr><td>063 = 63</td><td>450 = 450</td></tr> <tr><td>100 = 100</td><td>500 = 500</td></tr> <tr><td>200 = 200</td><td>550 = 550</td></tr> <tr><td>250 = 250</td><td></td></tr> </table>	035 = 35	350 = 350	040 = 40	400 = 400	063 = 63	450 = 450	100 = 100	500 = 500	200 = 200	550 = 550	250 = 250	
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100 = 100	500 = 500															
200 = 200	550 = 550															
250 = 250																

### Termination Tables

Termination Code	A	D	F	C	E	G	H
Diameter (mm)							
25	•	•	•				
30	•	•	•				
35	•	•	•	•	•		
40	•	•	•	•	•	•	•
45				•	•	•	•
50				•	•	•	•

Mounting: These capacitors are designed to be mounted by their terminations alone and may be used in any position. Dummy pins must be isolated on 4 and 5 pin styles.

Termination Code	Termination Style	LL ( $\pm 1$ mm)
<b>Standard Termination Option</b>		
A	2 Pin	6.3
G (D $\geq$ 45)	5 Pin	6.3
<b>Other Termination Options</b>		
D	2 Pin	4
F	3 Pin	4
C	4 Pin	6.3
E	4 Pin	4
H	5 Pin	4