

Low-Profile Rectangular Polymer Capacitors

Overview

APL90 is an AEC-Q200-qualified aluminum polymer rectangular capacitor designed to fulfill 48V automotive applications and related platforms requiring compactness with a low profile and footprint. APL90 offers excellent volumetric efficiency in a shape that lends itself to stacking into modules. Its shape allows for easy use with a heat sink from the large surface area of the aluminum case or along its thickness, as like offers a solution for applications requiring very low profiles. These capacitors can then be mounted in horizontal or vertical positions, allowing heat-sink to benefit space usage.

Benefits

- Rectangular shape for good volumetric efficiency and modular stacking options
- Easy use of multiple heat sink options - allowing I_{AC} optimization
- Height restriction solution / Compactness
- Life of 2,000 hours at +125°C [(V_R) and (I_R) applied]
- AEC-Q200 qualified for automotive applications
- High vibration up to 20 g
- Excellent ripple current capability - Up to 26A

Electrical Characteristics

Capacitance: 1,100 μ F
Voltage Rating: 63 VDC
Operating Temperature: -55 to 125°C

Features

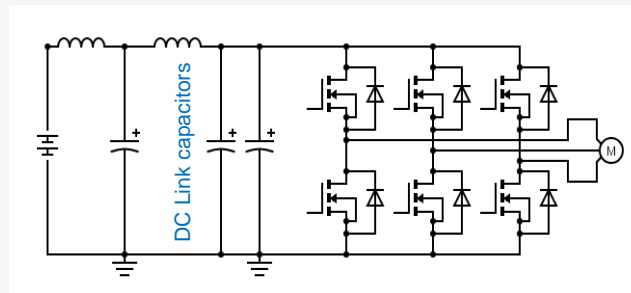
Rectangular shape offers good volumetric efficiency
Large surface area of aluminum case allows for easy use with a heat sink



Size Offering

Code	L (mm)	W (mm)	H (mm)
LH	53.8	24.0	8.0

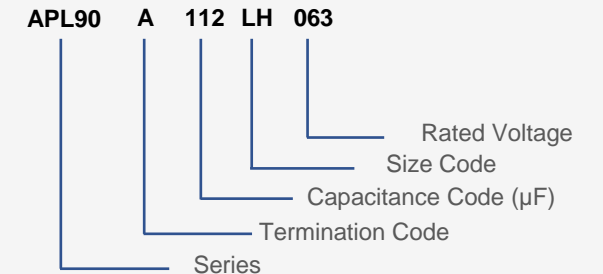
Typical Circuit Function: DC Link



Applications

Automotive | On-Board Chargers | Power Inverters | Wall Boxes
48V Input Capacitor for Data Centers Power Supplies

Part Number System



Datasheet

[KEM A4121 APL90.pdf \(kemet.com\)](https://www.kemet.com/A4121/APL90.pdf)