ALR91, +125°C, High Reliability

KEMET a YAGEO company

Overview

The KEMET ALR91 is a robust aluminum rectangular design for applications requiring high temperatures, high vibration, and high reliability. It offers good capacitance results at low temperature ranges. Use at altitudes of up to 24,400 meters (80,000 feet) is possible. Rated at 125°C, the ALR91 offers good volumetric efficiency in a shape that lends itself to stacking into modules and ease of use with a heat sink. The capacitor case is stainless steel.

The ALR91 is available to customers in the EMEA and Asian regions. Customers interested in partnering with KEMET to align region and performance requirements can contact your local Sales Representative for more information.

Applications

Power Hold-up:
- Shipboard antennae
- Power holdup in the radio system of a fighter jet
- Fighter sticks-and-throttles unit
- Missile system
- Helicopter actuator system
- Military power amplifiers
- Military power PC cards and modules
- Airliner braking-systems
- Helicopter actuators
- Avionics power supply designs
- Beam Radar
- Xmit/rcv module

Benefits

- Rectangular shape for good volumetric efficiency, modular stacking, and ease of heat sinking
- Life of 5,000 hours at +125°C and rated voltage
- High reliability burn-in is standard on all parts
- High vibration up to 80 g
- Great capacitance performance at low temperature ranges (capable to -55°C)
- Use up to 24,400 meters (80,000 feet) altitude
- Polyester wrap for insulation
- Halogen-free

Part Number System

ALR91	A	201	CF	150		R
Series	Termination	Capacitance Code (µF)	Size Code	Rated Voltage (VDC)		Performance
Aluminum Rectangular	See Termination Table	First two digits represent significant figures. Third digit specifies number of zeros.	See Dimension Table	020 = 20 040 = 40 060 = 60 100 = 100	150 = 150 200 = 200 250 = 250	R = High Reliability (for 26 mm width) M = Anti-Vibration and High Reliability (for 45 mm width)

Built Into Tomorrow

KEMET
a YAGEO company

KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit www.kemet.com/sales.

Disclaimer

All product specifications, statements, information and data (collectively, the "Information") in this datasheet are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Statements of suitability for certain applications are based on KEMET Electronics Corporation's ("KEMET") knowledge of typical operating conditions for such applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by KEMET with reference to the use of KEMET's products is given gratis, and KEMET assumes no obligation or liability for the advice given or results obtained.

Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product−related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.