KEMET
a YAGEO company

Polymer Electrolytic Capacitors

A798 High Temperature and High Humidity Polymer Aluminum (125ºC/3000h and 85ºC/85%/Ur/1000h)

Overview

A798 Aluminum Organic Capacitor (AO-CAP) is a solid-state aluminum capacitor. The cathode is a conductive organic polymer, which results in very low ESR and improved capacitance retention at high frequency.

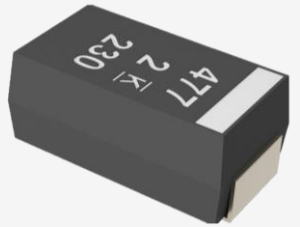
A798 High Temperature and High Humidity Series Aluminum Polymer capacitors deliver higher capacitance and ESR stability under extended 125ºC endurance life and storage. Enhancements to the design and process flow were introduced to deliver 3000h 125ºC at rated voltage and unbiased conditions in combination with 85ºC, 85% relative humidity at rated voltage up to 1000h.

Benefits

- High frequency capacitance retention
- Non-ignition failure mode
- 100% accelerated steady state aging
- 100% surge current tested
- Volumetric efficiency
- Self-healing
- EIA standard case sizes
- Halogen-free epoxy and RoHS compliant

Electrical Characteristics

- Operating Temperature: −55°C to 125ºC
- Rated Capacitance: 470 µF (±20% tolerance)
- Rated ESR at 100 kHz: 6- 9 mΩ maximum
- Rated Voltage: 2.0 – 2.5V

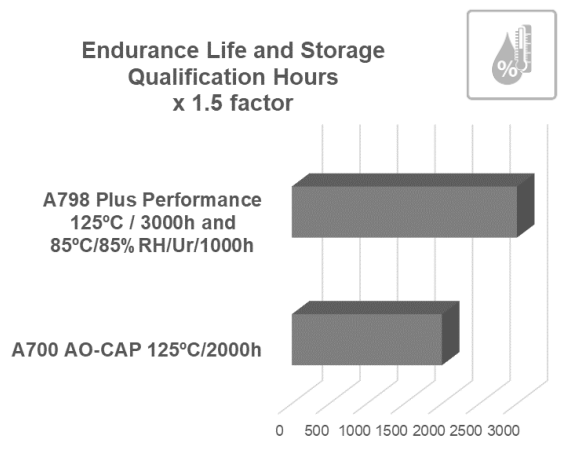


Part Number System

A798	V	477	M	002	P	T	E009

- E009: ESR at 100 kHz (mΩ)
- T: LT (100% Sn) and H (min 5% Pb) Termination
- P: A non ER, P non ER + Plus Performance 125ºC/3000h
- 002: Voltage Code
- M: Capacitance Tolerance Code
- 477: Capacitance Code
- V: Case Size
- A798: **Axxx** Series Aluminum

Important Feature



Applications

- Telecom
- 5G
- Base Stations
- Computing AI
- Decoupling Solution

https://www.kemet.com/en/us/capacitors/polymer/Polymer-General-Purpose.html