KEMET
a YAGEO company

Aluminum Electrolytic
Surface Mount Hybrid Polymer
AEC-Q200 Qualified

Overview

KEMET's A782 is a surface mount conductive polymer hybrid capacitor with outstanding electrical performance. The winding is housed in a cylindrical aluminum can with a high/quality rubber deck. Low ESR is conditioned by a highly conductive polymer (PEDOT/PSS). The polymer system creates an electrical pathway between the anodic oxide layer and the cathode through a mechanical separator - paper. The A782 winding is impregnated with liquid electrolyte that translates to the self-healing features of the capacitor. Thanks to its mechanical robustness, the A782 is suitable for use in mobile and automotive installations with operation up to +135°C.

Benefits

- Surface mount form factor
- High ripple current up to 3.4 A_{rms} @135ºC
- High temperature: 135ºC/4,000 hours
- Low leakage current (Typically no re-ageing required)
- High vibration resistance up to 30g (anti-vibration version)

Part Number System

A 782 MS 107 M 1J LA S 030

- A — Capacitor Class
- 782 — Series
- MS — Size Code
- 107 — Capacitance Code (pF)
- M — Tolerance
- 1J — Rated Voltage (VDC)
- LA — Packaging
- S — Electrical Parameters
- 030 — ESR

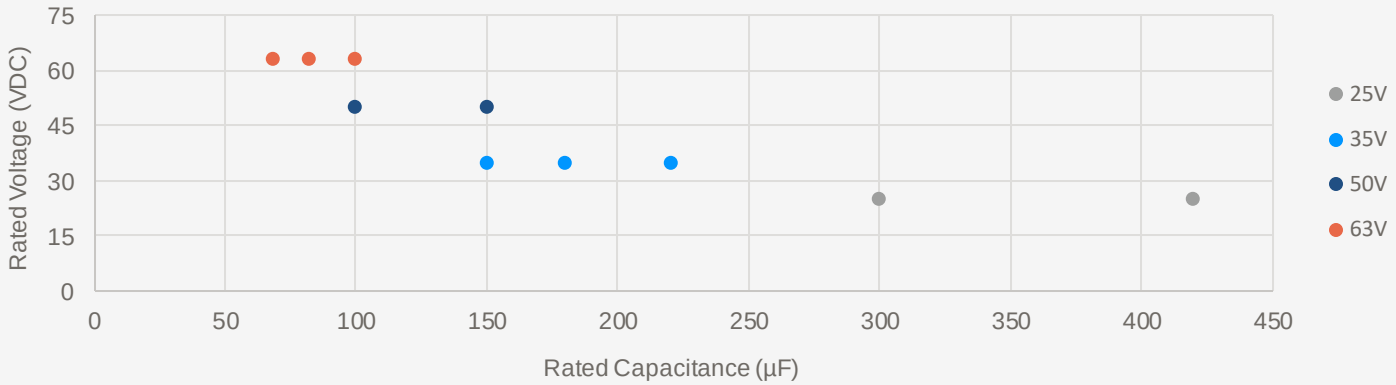
Electrical Characteristics

Voltage Range: **25 – 63** VDC
Capacitance Range: **68 – 420** µF
Operating Temperature: **-55 to +135°C**
Endurance Life test: **4,000** hours @135ºC/ Rated Ripple & Voltage
Ripple Current: up to **4.45A$_{rms}$** @125ºC/4,000 hours
up to **3.40A$_{rms}$** @135ºC/4,000 hours

Standard

Anti-Vibration

Characteristics



Applications

- Automotive
- Industrial
- DC-DC Regulators, Power Supplies, Decoupling

A782 datasheet