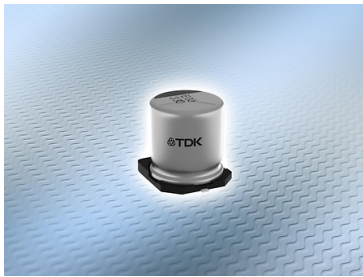


Aluminum electrolytic capacitors

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Robust SMD design in hybrid polymer technology



TDK Corporation (TSE:6762) has extended its range of hybrid polymer aluminum electrolytic capacitors with a new SMD series. The components are now available in 25 V DC / 330 μ F and 35 V DC / 270 μ F versions, each with dimensions of 10 x 10.2 mm (d x l). The capacitors, which are RoHS-compatible and qualified to AEC-Q200, are designed for a maximum operating temperature of 125 °C and offer a long service life of at least 4000 hours.

Two electrical parameters in particular characterize the compact capacitors: their extremely low ESR value of ≤ 20 m Ω and the high ripple current capability of 2.8 A at 125 °C and 100 kHz. These excellent values are made possible by the hybrid polymer technology.

In addition to automotive electronic control units, the capacitors with the ordering codes B40900B5337M000 (330 μ F) and B40900B7277M000 (270 μ F) can also be used in industrial applications.

The new SMD series supplements the world's first axial hybrid polymer aluminum electrolytic capacitors. These capacitors with dimensions of between 14 x 25 mm and 16 x 30 mm (d x l) are designed for rated voltages of 25 V, 35 V or 63 V and offer capacitance values from 390 to 2100 μ F. Despite their low weight and volume, they offer a very high current capability for automotive power modules.

Main applications

- Automotive electronic control units
- Industrial applications

Main features and benefits

- Long service life of 4000 hours at 125 °C
- Very low ESR of ≤ 20 m Ω
- High ripple current capability of 2.8 A
- Compact dimensions of 10 x 10.2 mm (d x l)