

172 RLX Aluminum Electrolytic Capacitors

Smaller Case Size and up to 50 % Higher Ripple Current for New Industrial Power Applications

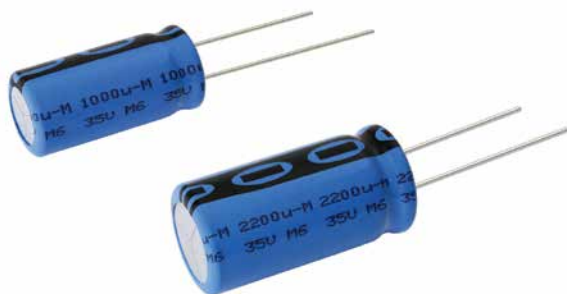


ADVANTAGE

The 172 RLX series offers AEC-Q200 qualified capacitors with very high ripple current, long useful life, and high capacitance.

KEY PRODUCT FEATURES

- ✓ AEC-Q200 qualified for highest reliability
- ✓ Ripple current of the 172 RLX series is higher than the ripple current of the previous series at the same CV value
- ✓ Smaller case size for higher integration density
- ✓ Higher capacitance values in a smaller size



RESOURCES



MARKETS AND APPLICATIONS



MOBILITY

- ECUs
- Electrical vehicles
- Camera systems
- Connectivity
- E-bikes
- Railway equipment
- Agriculture vehicles



INDUSTRIAL

- Control units
- Motor drives
- Power supplies
- Home automation



ENERGY SECTOR

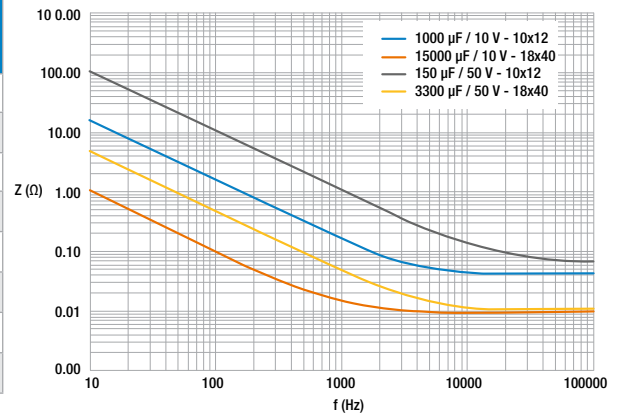
- Monitoring
- Metering

ADDITIONAL BENEFITS

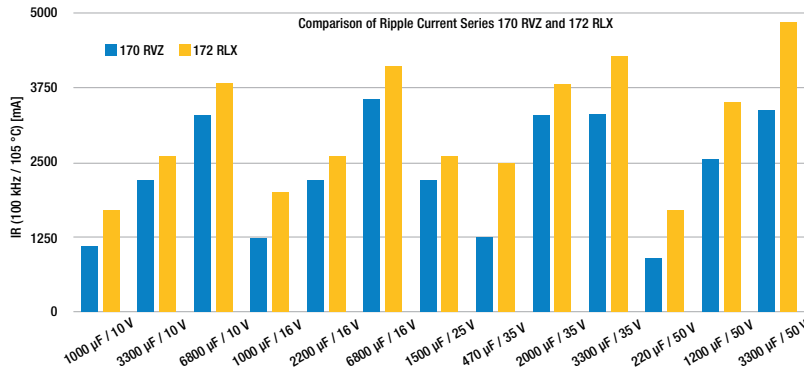
- Higher capacitance values available at lower voltages compared to 170 RVZ series
- Ripple current up to 4960 mA (100 kHz / 105 °C) e.g. 15000 μF / 10 V
- AEC-Q200 automotive qualified
- IATF 16949 certified manufacturer
- Manufactured in the EU

Product Characteristics

Description	Value
Nominal case sizes	10 x 12 mm to 18 x 40 mm
Capacitance range	150 μF to 15 000 μF
Rated voltage range	10 V to 50 V
Category temperature range	-40 °C to +105 °C
Useful life at 105 °C	4000 h to 10 000 h
Useful life at 40 °C 1.8 x I _R applied	200 000 h to 500 000 h
Based on sectional specification	IEC 60384-4 / EN130300
Automotive qualified	AEC-Q200

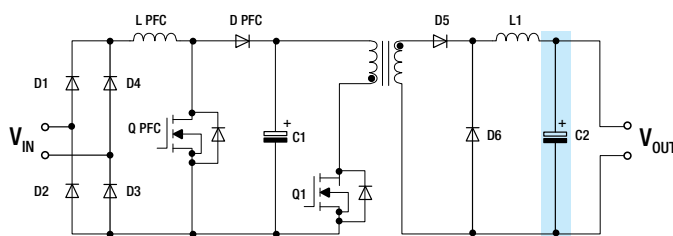


Typical Impedance as a Function of Frequency



The 172 RLX series offers up to nearly 50 % higher ripple current than the 170 RVZ series at 100 kHz and 105 °C (see figure on the left).

With its ability to withstand very high ripple currents and its useful life of up to 10 000 hours at 105 °C, the 172 RLX series is among the highest quality products available on the market.



Application example:

C2: e.g. MAL217250122E3
1200 μF – 35 V, IR = 3200 mA (100 kHz / 105 °C)
capacitor in the DC/DC converter part of a switch mode power supply.

C1: 100 μF – 470 μF / 400 V
e.g. 142 RHS or 193 PUR-SI series

Automotive Grade capacitors deliver stable performance for automotive electronics. These AEC-Q200 qualified capacitors likewise deliver reliably high performance in industrial applications and renewable energy products.

Please [contact us](#) if you would like to purchase the [172 RLX](#) or [order samples](#).