



Press Release

Nippon Chemi-Con Corporation
May 17, 2022

SMD Type Aluminum Electrolytic Capacitors MZT Series Small-Sized and High Capacitance Capacitors for Automotive Electronics and Consumer Appliances Developed

Nippon Chemi-Con has developed SMD type aluminum electrolytic capacitors MZT Series with a maximum 50% higher capacitance for the automotive electronics market, industrial equipment market and communication base station market.

The downsizing and high-density mounting of printed circuit boards has led to increased requirement for electronic components to have further stable product characteristics under harsh environments.

The automotive electronics market requires capacitors with higher capacitance. One application for these are backup power supplies of electronic control units. They are also used in graphics such as car navigation systems, car audio systems, and instrument panels as measures against instantaneous voltage drops.

The MZT Series will greatly contribute to these requirements.

Technical Features

The MZT Series realizes a maximum 20% to 50% higher capacitance than existing Series (MZR Series, MZS Series) by adopting our newly developed high-capacitance aluminum anode foil and cathode foil.

Product Specifications

- Category temperature range: -55°C to +105°C
- Rated voltage range: 16V to 35V
- Capacitance range: 510μF to 1,500μF (capacitance tolerance ±20%)
- Case size: ø8mm×10mmL to ø10mm×10mmL
- Endurance: 2,000 hours at 105°C

Samples and Mass Production

Samples: September 2022

Mass production: April 2023

Production Site

Chemi-Con East Japan Corp. Miyagi Plant

List of Standard Products

Size øD×L [mm]	Rated Voltage [Vdc]	Cap. [μF/120Hz]	ESR [mΩmax/100kHz]	Ripple current [mA _{rms} /105°C,100kHz]
8.0×10.0	16	820	0.08	850
	25	680	0.08	850
	35	510	0.08	850
10.0×10.0	16	1,500	0.06	1,190
	25	1,200	0.06	1,190
	35	820	0.06	1,190

Product Appearance

