

● Feature

- ☑ Endurance: **105°C 2,000h**
- ☑ Voltage: 16V_{dc} to 35V_{dc}
- ☑ Capacitance: 510_{uF} to 1,500_{uF}
- ☑ Size: φ8×10L to φ10×10L
- ☑ **Higher capacitance** than MZS series

● Recommended Application

- ☑ Switched-mode power supplies
(Smoothing output current)
- ☑ Power supplies (Back up) for automotive
- ☑ Automotive (Body) motor DC-LINK

● Product Chart

- ☑ **Recommended to replace MZR/MZS with MZT**

*High Capacitance / Low Impedance (SMD type)

MZJ

- Lower impedance
- **560_{uF}** / 1,190mArms
(25v, φ10×10L)

Since 2010.03

MZR

- Higher capacitance
- **820_{uF}** / 1,190mArms
(25v, φ10×10L)

Since 2013.12

MZS

- Higher capacitance
- **1,000_{uF}** / 1,190mArms
(25v, φ10×10L)

Since 2018.06

NEW **MZT**

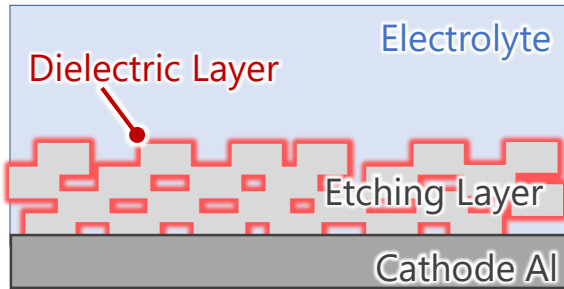
- **Higher capacitance**
- **1,200_{uF}** / 1,190mArms
(25v, φ10×10L)

Since 2022.10



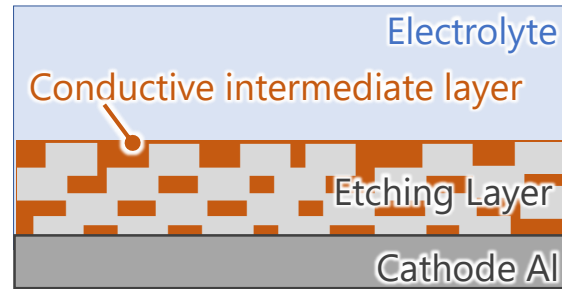
● Advantage

Conventional Foil



Dielectric layer

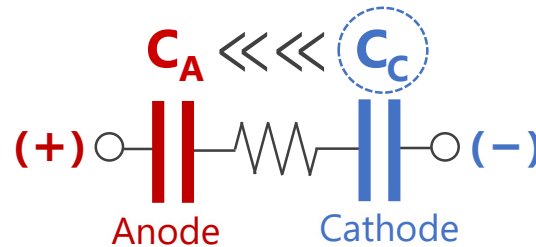
New Cathode Foil



Conductive intermediate layer

✓ Total capacitance calculation

$$C = \frac{C_A \times C_C}{C_A + C_C} \cong C_A$$



✓ Two advantages from MZR/MZS to MZT



① **Downsizing**

② **Higher capacitance**

Conventional
MZS



NEW
MZT

【Key Technologies】

Aluminum Foil (Anode)

- Increased mechanical strength (High density foil winding)

High mechanical strength anode foil
⇒ **Patented**

Aluminum Foil (Cathode)

- Increased foil cap. ⇒ Increased total cap.

New Cathode foil
⇒ **Patented**

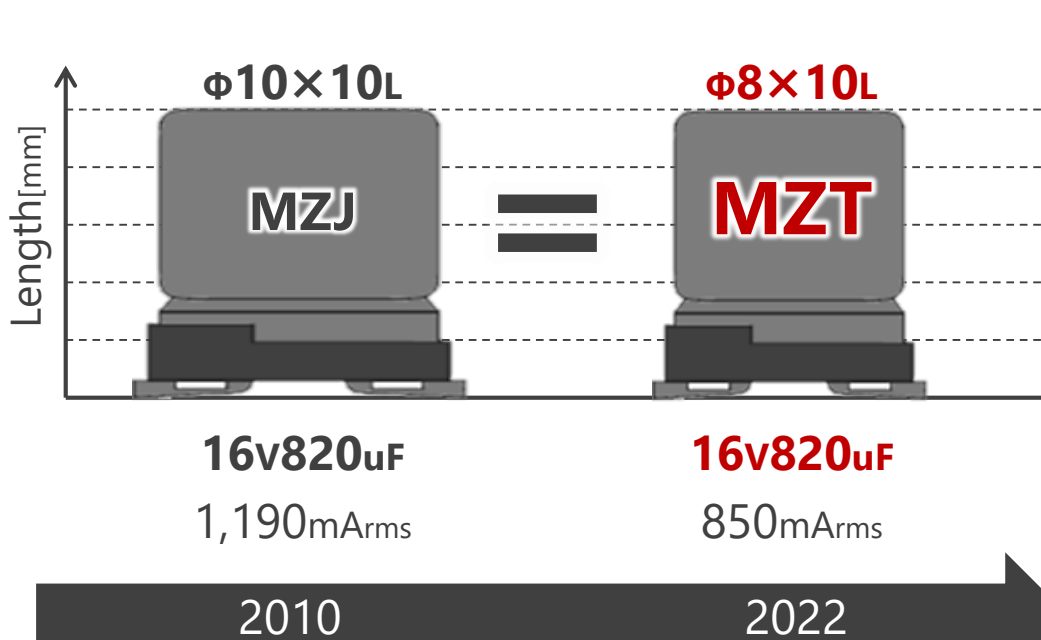
● Benefit/Evidence

➔ ① **Downsizing** . . . Equipment downsizing, Reduced area occupied by parts

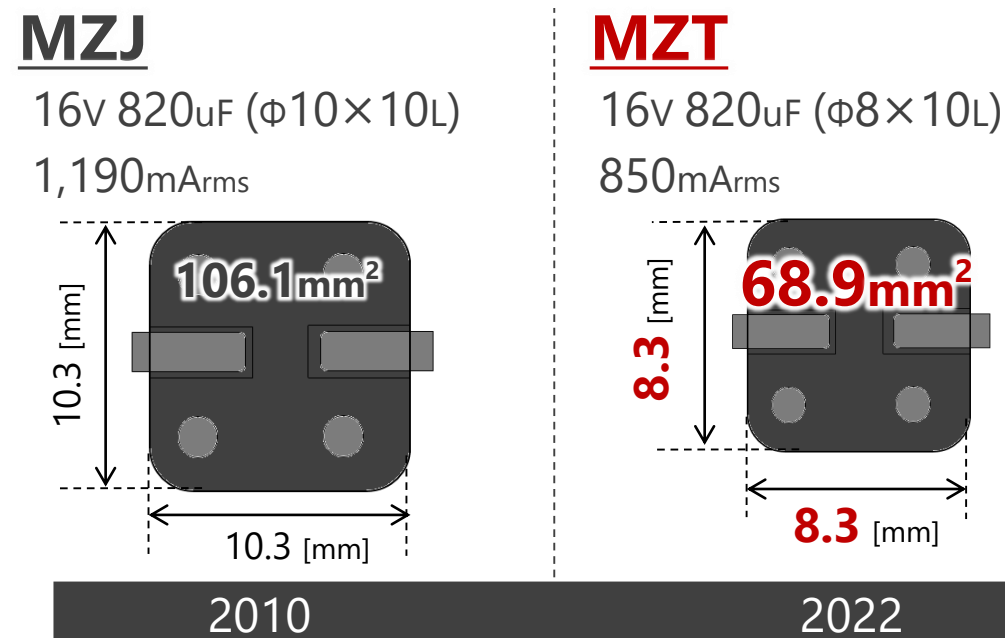
② Higher capacitance . . . Reduced # of capacitors



☑ Downsizing (Fixed total capacitance)



☑ Reduced area (Fixed total capacitance)



● Benefit/Evidence

① Downsizing . . . Equipment downsizing, Reduced area occupied by parts

➔ ② **Higher capacitance** . . **Reduced # of capacitors**

