

● Feature

- ☑ Endurance: **135°C** 4,000h (φ6.3: 2,000h)
- ☑ Voltage: 16 to 63V_{dc}
- ☑ Capacitance: 22 to **560μF**
- ☑ Size: φ6.3×5.8L to **φ10×16.5L**
- ☑ Bias humidity: 85°C/85%RH 2,000h

● Product Chart

- ☑ **Recommended to replace in HXC to HXE**
*Lineup for high heat resistance/super low ESR (SMD type)

● Recommend Application

- ☑ For high temperature / High reliability usage
- ☑ For automotive (48v Board Net)
- ☑ For base station (48v Power Supply)



Upgrade!

HXE

- **Expanded to φ10×12.5L** 2020.12
- **Expanded to φ10×16.5L** 2021.04 MP/Scheduled

- **Higher Temp / Ripple current**
- **22 to 560μF**
- **125°C 4,000h**



HXC

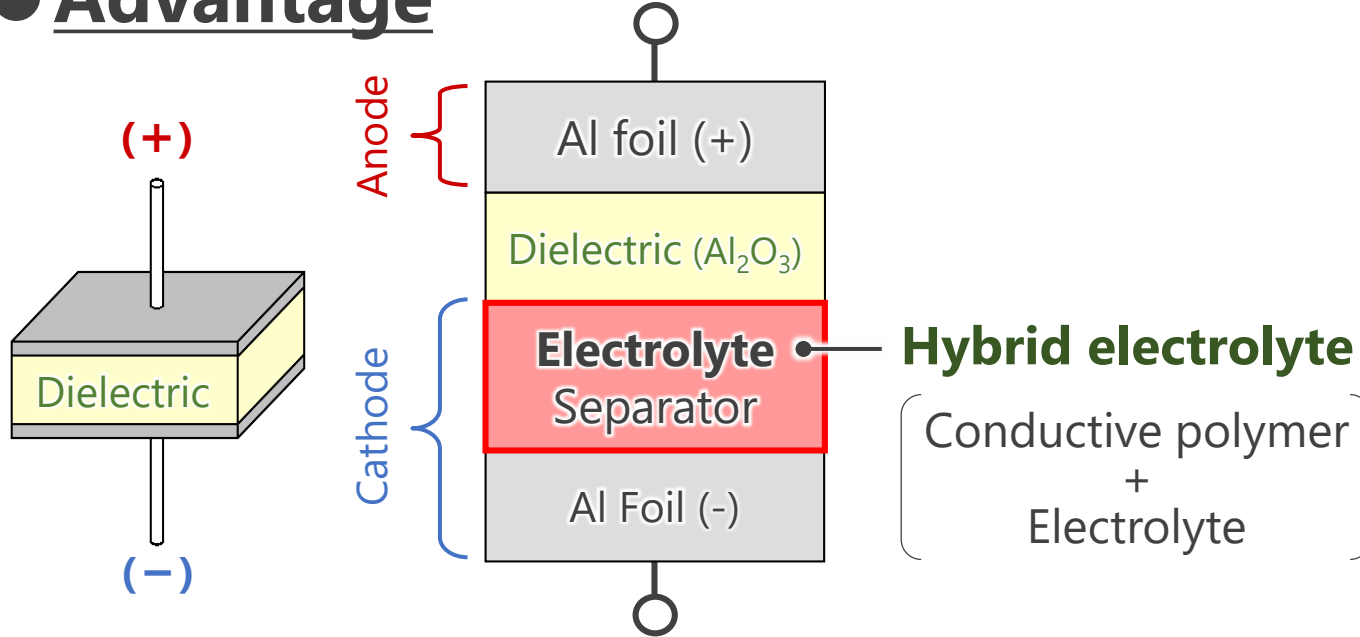
- 125°C standard
- 6.8 to 470μF
- **125°C 4,000h**

Since 2016.02

Since 2017.11



● Advantage



Conventional
HXC

【 Key Technologies 】

Electrolyte①
• Newly developed

Electrolyte②
• Optimizing
conductive polymer

HXE

Upgrade!

Expanded to $\phi 10 \times 12.5L!!$

2020.12

Expanded to $\phi 10 \times 16.5L$

2021.04 MP/scheduled

✓ Four advantages of HXE



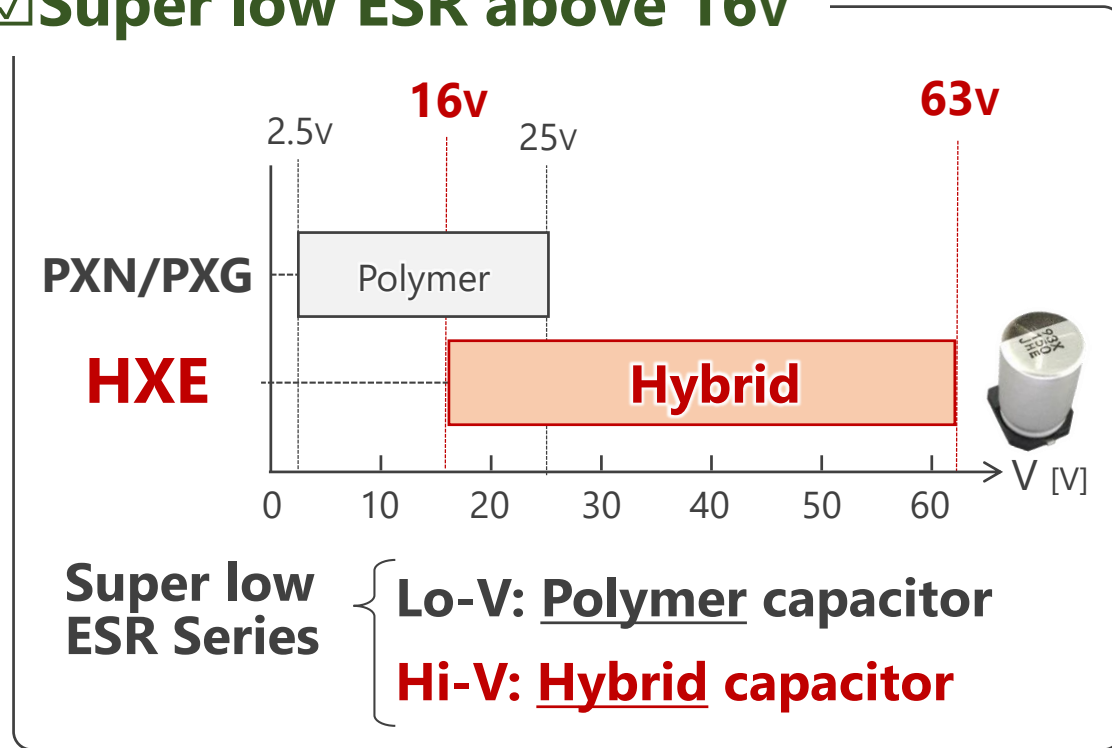
- ① **Super low ESR above 16v**
- ② **Wear-out failure (Open Circuit & Safety)**
- ③ **Higher ripple current**
- ④ **Longer Life**

● Benefit/Evidence

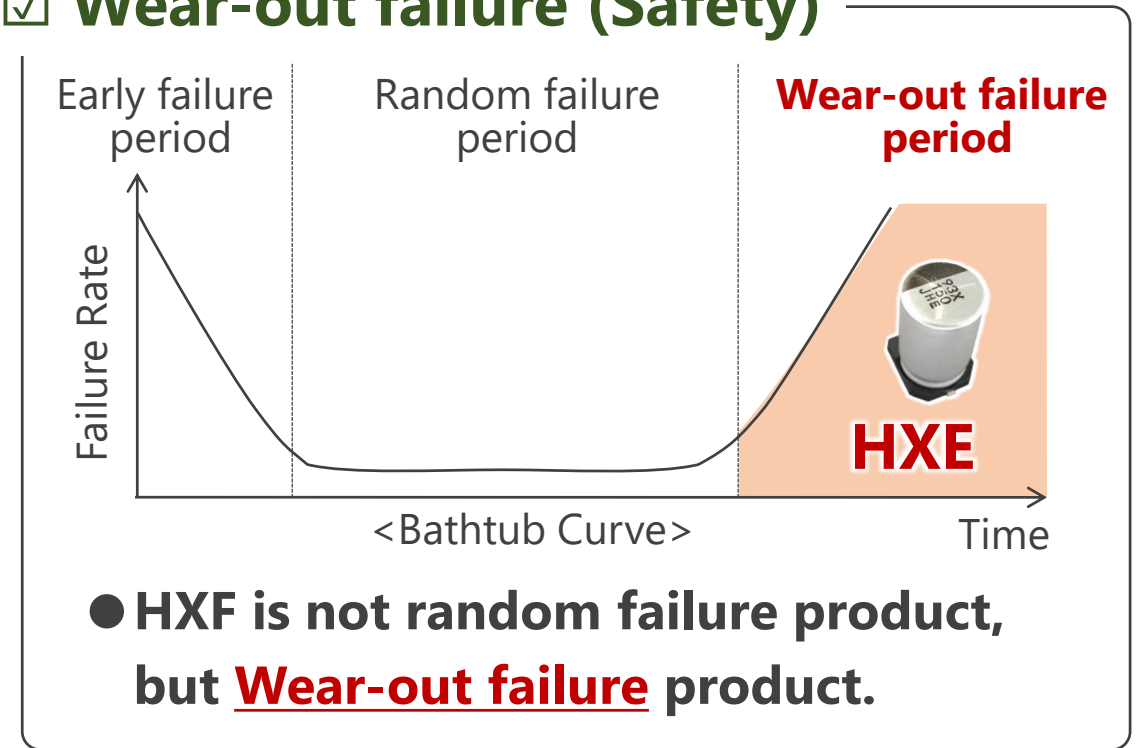
- ➔ ① **Super low ESR above 25v** / ② **Wear-out failure (Open circuit & Safety)**
③ **Higher ripple current** / ④ **Longer Life** · · **Higher power density, Longer equipment life**



☑ **Super low ESR above 16v**



☑ **Wear-out failure (Safety)**



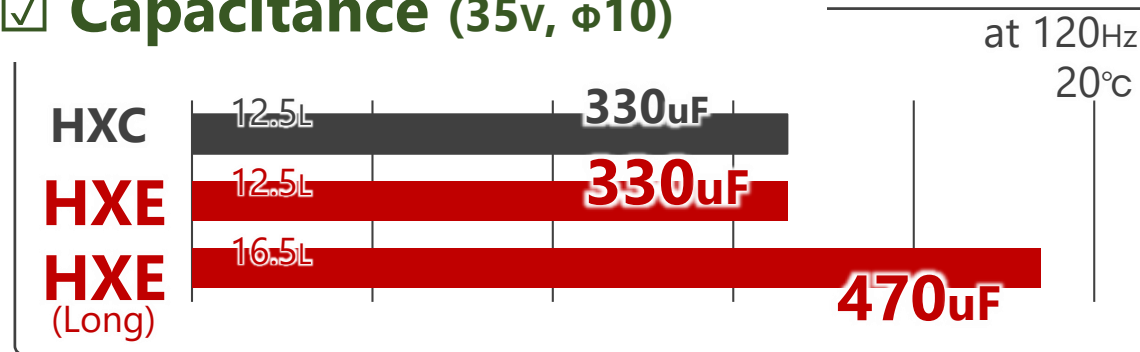
● Benefit/Evidence



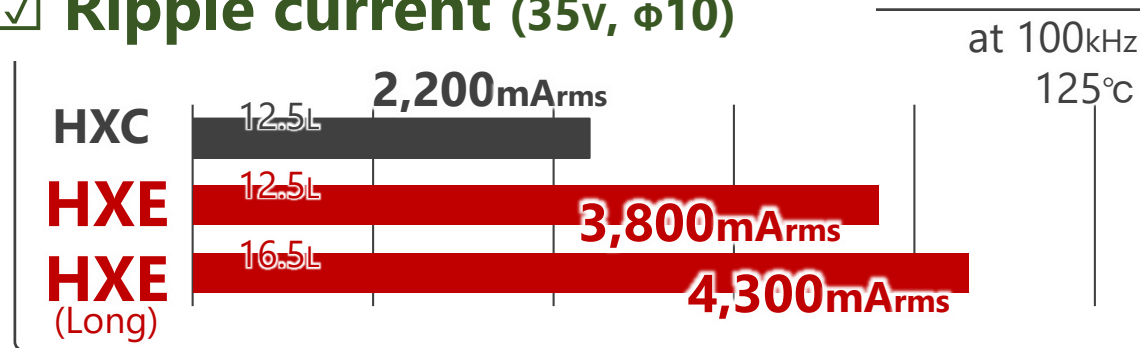
① Super low ESR above 25v / ② Wear-out failure (Open circuit & Safety)

➔ ③ Higher ripple current / ④ Longer Life • • Higher power density, Longer equipment life

☑ Capacitance (35v, φ10)



☑ Ripple current (35v, φ10)



☑ lifetime(35v, φ10)

