

## ● Feature

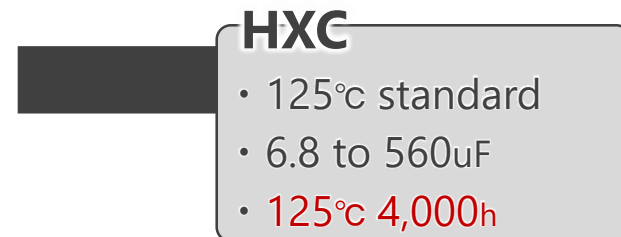
- ☑ Endurance: **135°C** 4,000h (φ6.3: 2,000h)
- ☑ Voltage: 16 to 63V<sub>dc</sub>
- ☑ Capacitance: 22 to **560μF**
- ☑ Size: φ6.3×5.8L to **φ10×16.5L**
- ☑ Bias humidity: 85°C/85%RH 2,000h

## ● 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)



Since 2016.02

2021.05  
**Upgrade!**  
**HXE**

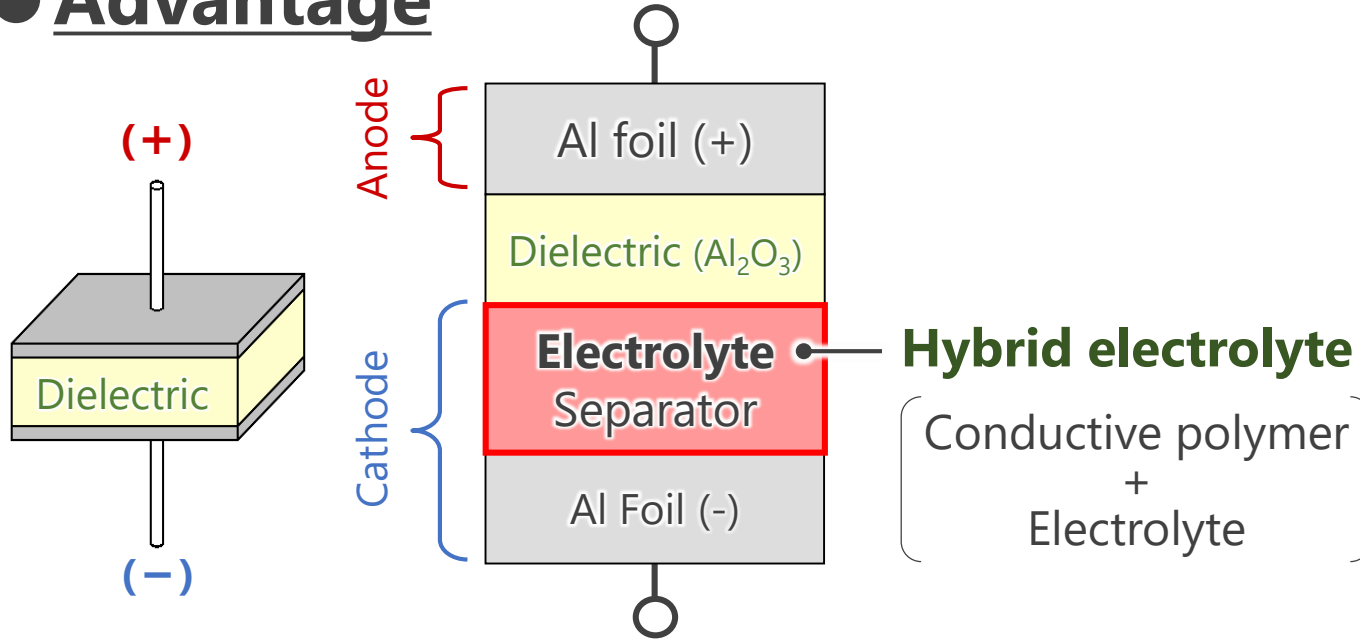
- **Expanded to φ10×12.5L**
- **Expanded to φ10×16.5L**
- **Higher Temp / Ripple current**
- **22 to 560μF**
- **135°C 4,000h**



Since 2017.11



● **Advantage**



Conventional  
**HXC**

【 Key Technologies 】

**Electrolyte①**  
 • Newly developed

**Electrolyte②**  
 • Optimizing  
 conductive polymer

**HXE**

2021.05

**Upgrade!**

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

**Expanded to  $\phi 10 \times 16.5L$**

☑ **Four advantages of HXE**



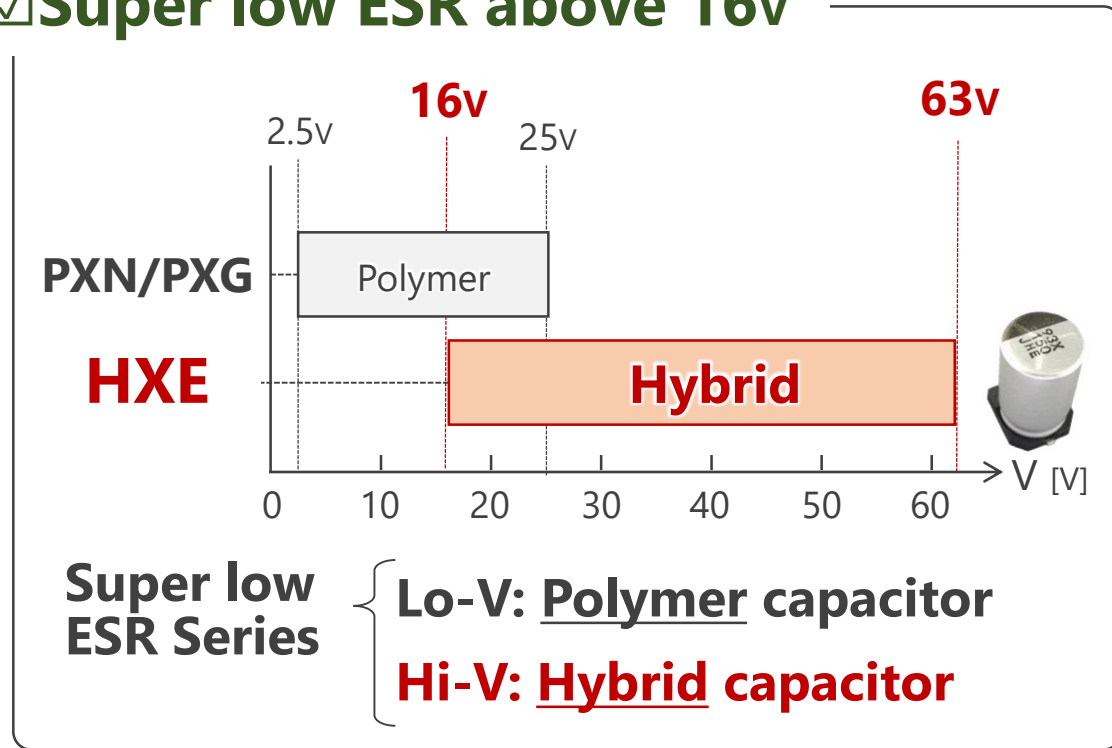
- ① **Super low ESR above 16v**
- ② **Wear-out failure (Open Circuit & Safety)**
- ③ **Higher ripple current**
- ④ **Longer Life**

## ● Benefit/Evidence

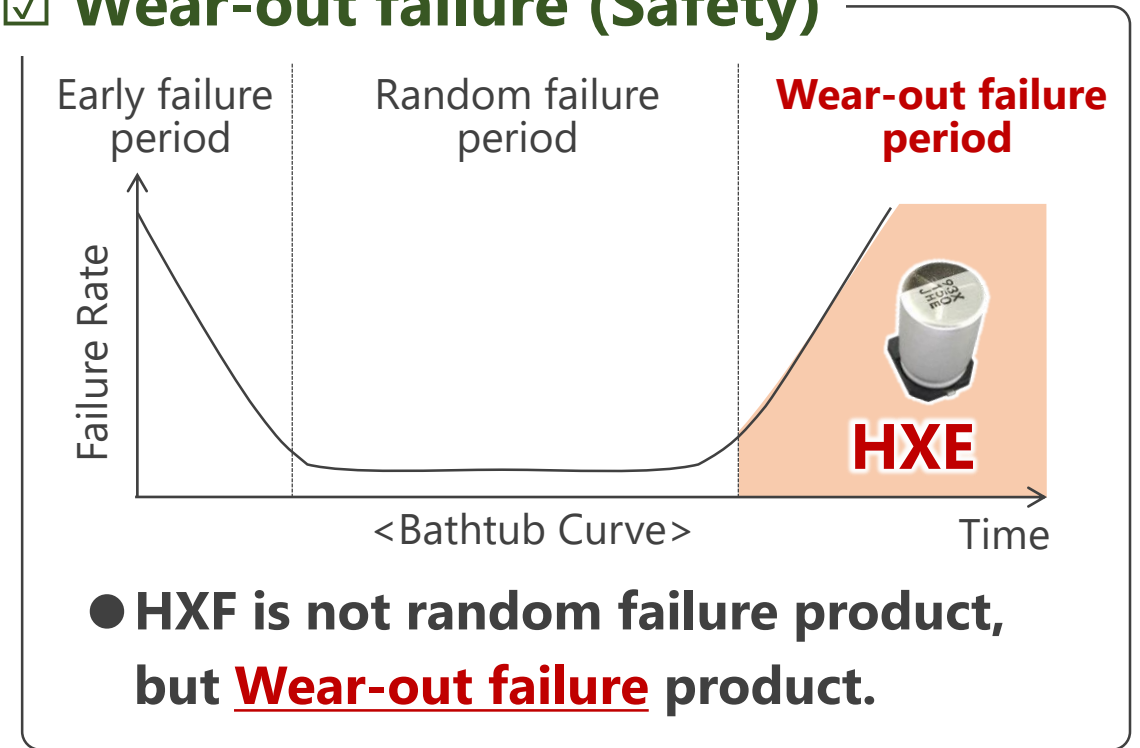
- ➔ ① **Super low ESR above 16v** / ② **Wear-out failure (Open circuit & Safety)**  
③ **Higher ripple current** / ④ **Longer Life** · · **Higher power density, Longer equipment life**



### ☑ **Super low ESR above 16v**



### ☑ **Wear-out failure (Safety)**



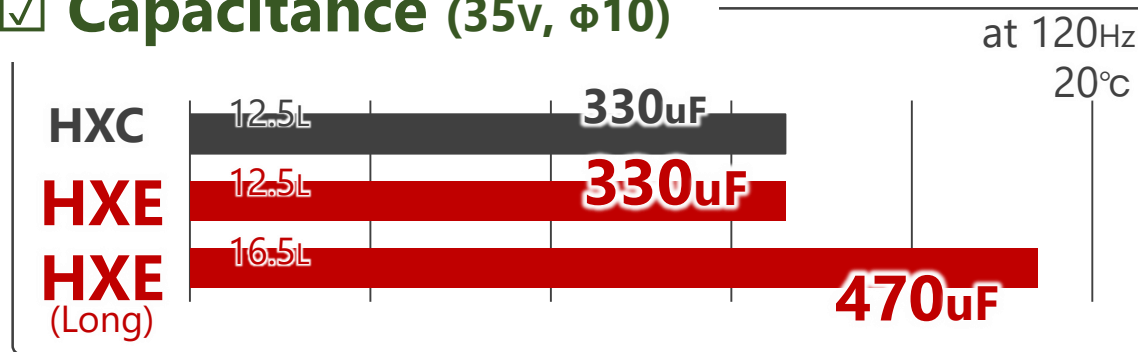
## ● Benefit/Evidence



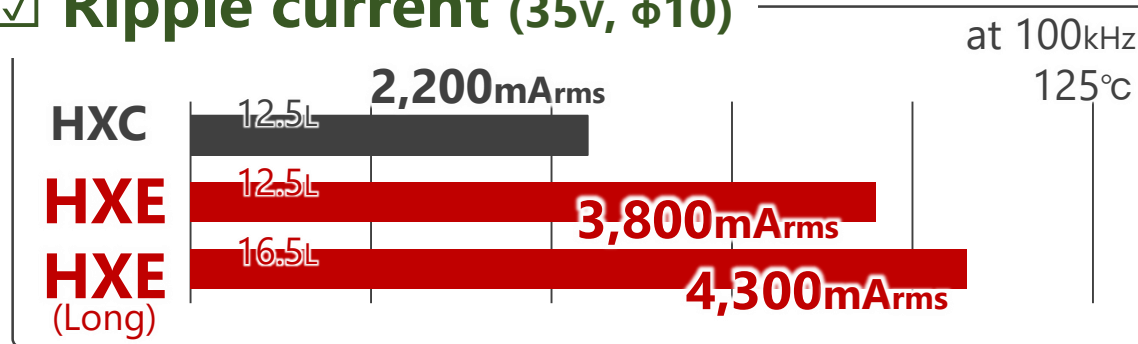
① Super low ESR above 16v / ② Wear-out failure (Open circuit & Safety)

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

### ☑ Capacitance (35v, φ10)



### ☑ Ripple current (35v, φ10)



### ☑ lifetime (35v, φ10)

