Conductive Polymer Hybrid Aluminum Electrolytic Capacitor

High Voltage
Super low ESR

CHEMI-CON
No. U21M080110

● Feature

- ☑ Endurance: 125℃ 4,000h (with ripple)
- ☑ Voltage: 25Vdc to 80Vdc
- ☑ Capacitance: 56uF to 330uF
- ☑ Size: Φ10×12.5L
- ☑ Bias Humidity: 85℃/85%RH 2,000h

● Recommended Application

- ☑ For high reliablity usage
- ☑ For automotive
- ☑ For power supply for Data center

● Product Chart

*Lineup for super low ESR at 125℃
(Radial lead type)

☑ Recommended to replace in HSD to HSC

HSD
- 105℃ Standard
- 25 to 80V
- 68 to 470uF
- 105℃ 10,000h

Since 2017.09

2021.12
Upgrade!

HSC
- **Expanded to 80V!!**
- **125℃ Standard**
- **85℃ / 85%RH 2,000h**
- **125℃ 4,000h**

Since 2016.03

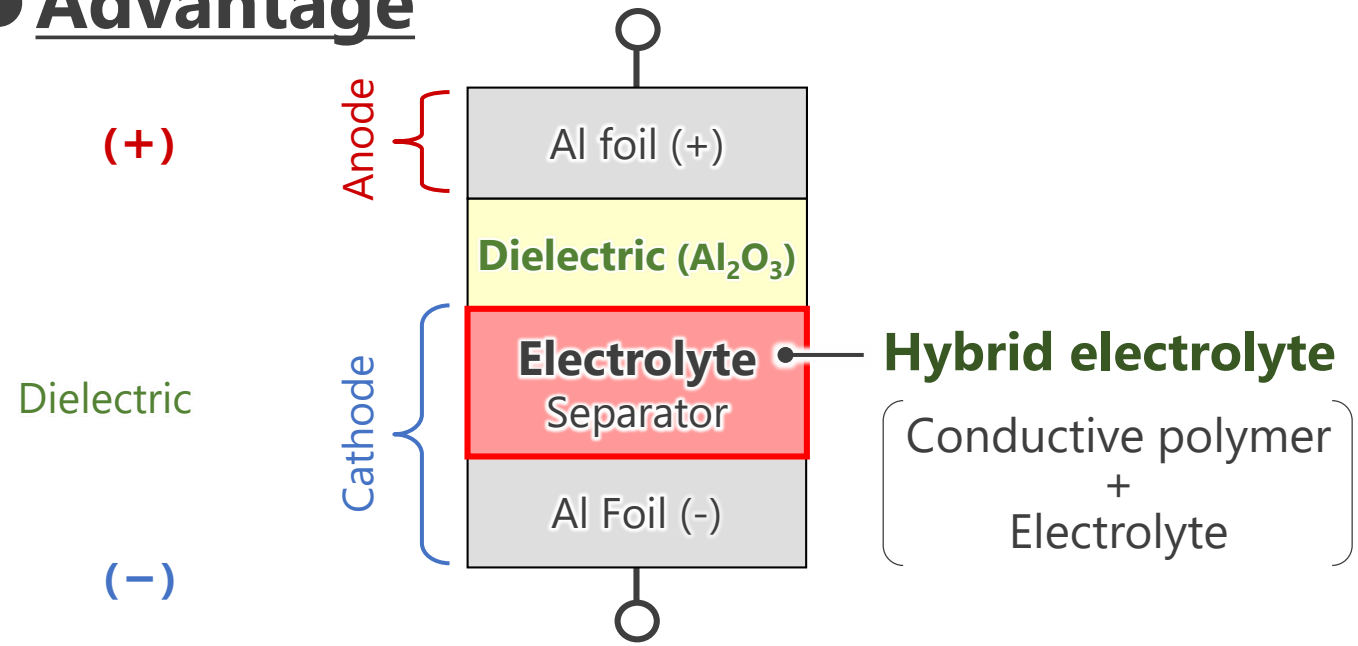
HSE
- 135℃ Standard
- 25 to 63V
- 100 to 330uF
- 135℃ 4,000h

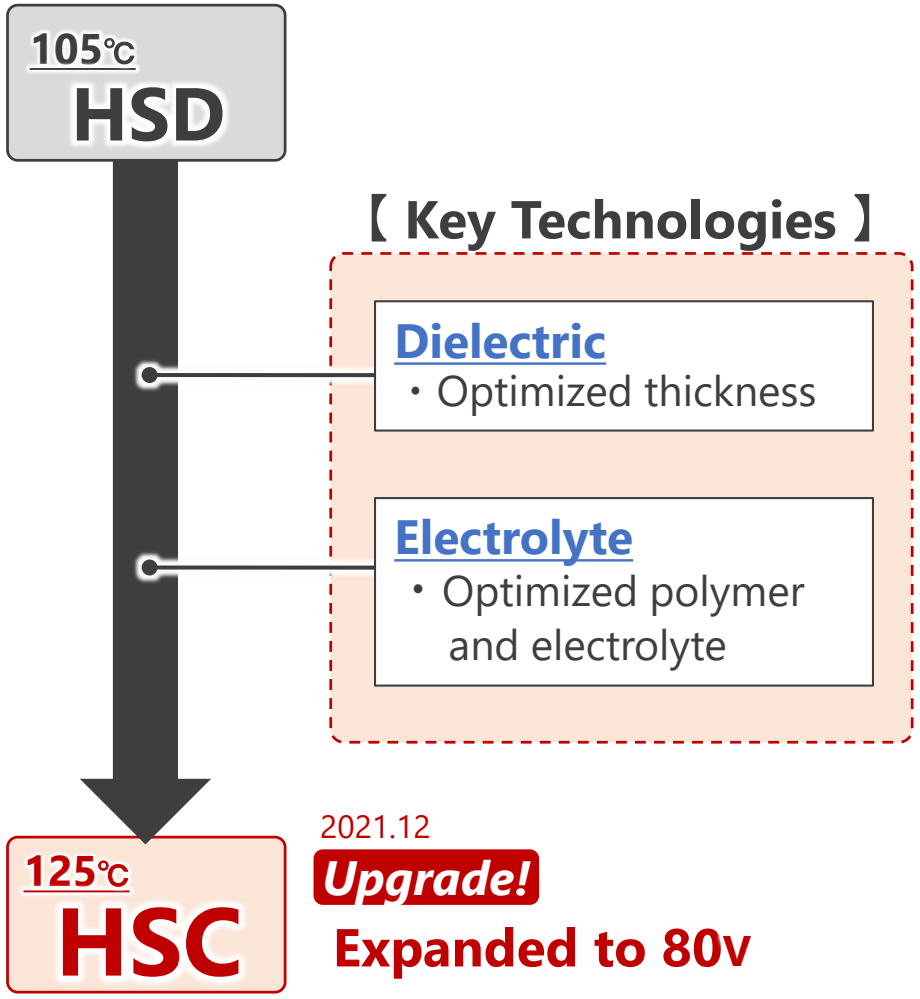
Since 2018.07

URL_ https://www.chemi-con.co.jp/en

Copyright 2022 Nippon Chemi-Con Corporation

● Advantage





☑ Four advantage of HSC

- ①Super low ESR above 25v
- ②Wear-out failure (Open circuit & Safety)
- ③Higher capacitance
- ④Higher ripple current

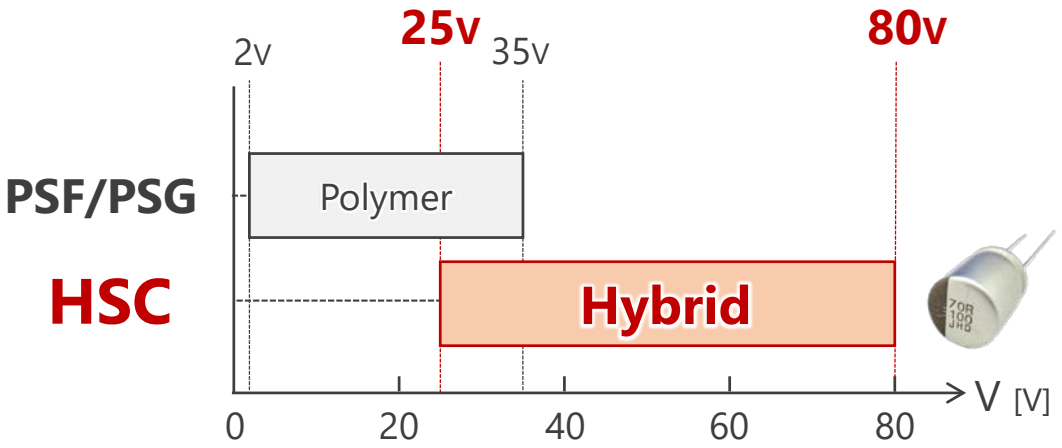
Copyright 2022 Nippon Chemi-Con Corporation

● Benefit/Evidence

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

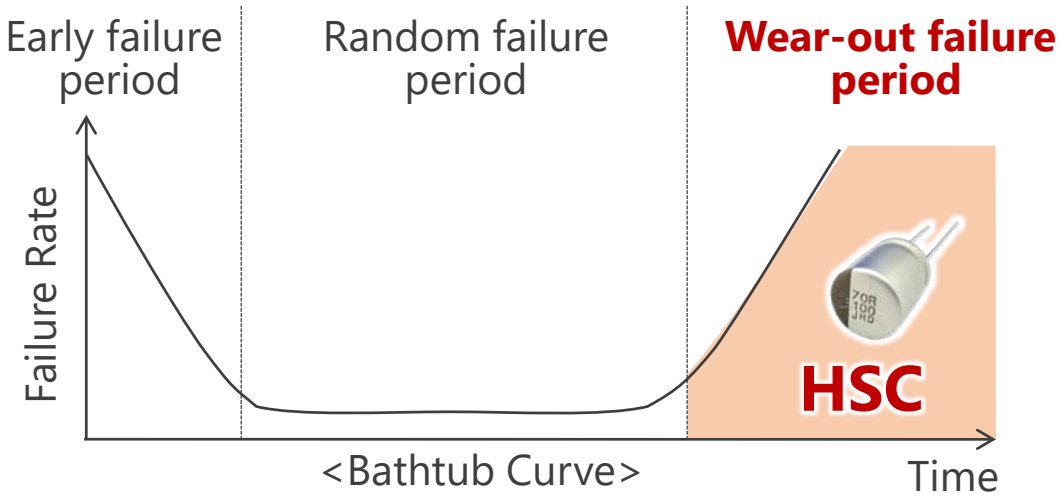
③Higher cap. / ④Higher ripple・・・Higher power density, Longer equipment life

☑ Super low ESR above 25v



Super low ESR Series
- **Lo-V: Polymer capacitor**
- **Hi-V: Hybrid capacitor**

☑ Wear-out failure (Safety)



● **HSC is not random failure product, but Wear-out failure product.**

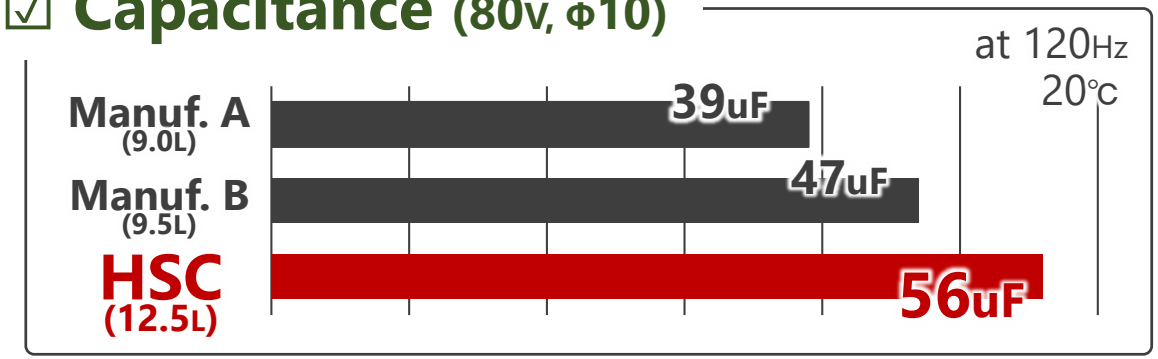
Copyright 2022 Nippon Chemi-Con Corporation

● Benefit/Evidence

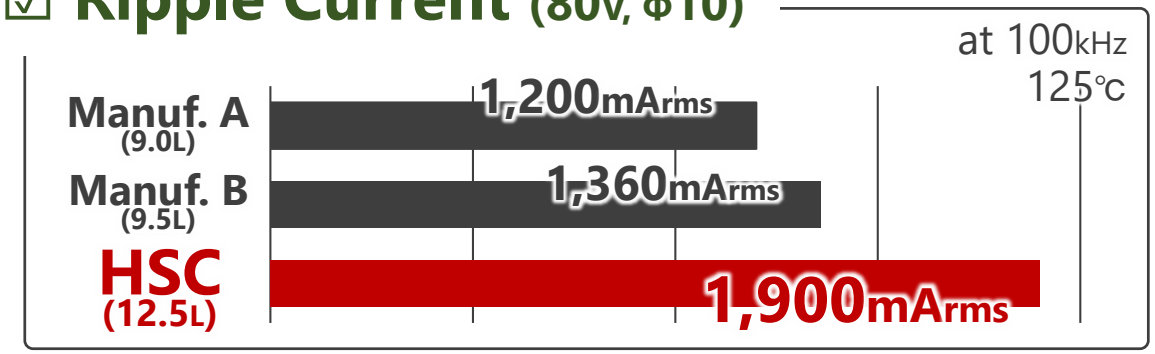
①Super low ESR above 25v / ②Wear-out failure (Open circuit & Safety)

➡ ③Higher cap. / ④Higher ripple・・・Higher power density, Longer equipment life

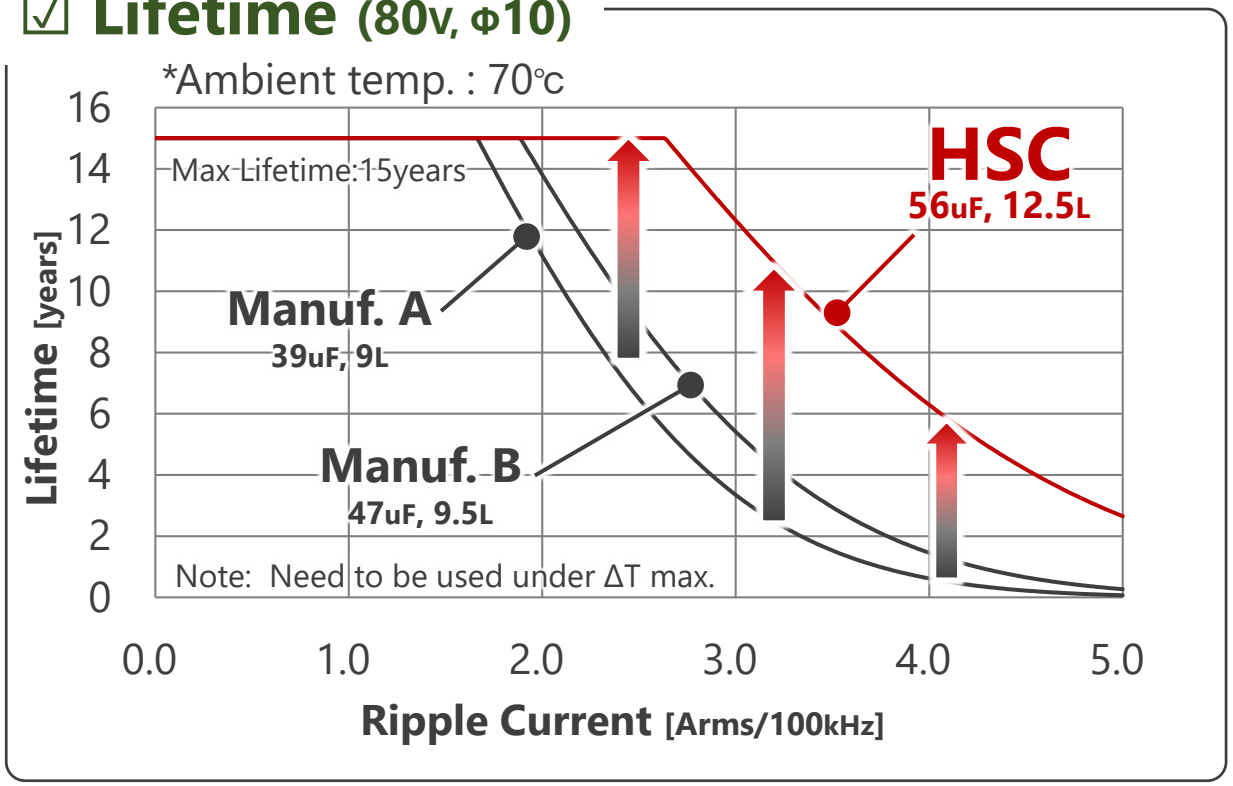
☑ Capacitance (80v, Φ10)



☑ Ripple Current (80v, Φ10)



☑ Lifetime (80v, Φ10)



Copyright 2022 Nippon Chemi-Con Corporation