

# ***Su'scon***

Professional Manufacturer of  
Aluminum Electrolytic Capacitors

KUAN KUN | **Company Profile**



## About **Su'scon**

**Su'scon** Kuan Kun Electronic Enterprise Co., Ltd. , was founded by General Manager Johnson Su in 1978. The company specializes in providing solutions associated with the design, R&D, manufacture, and sales of aluminum electrolytic capacitors. For the past four decades, Su'scon has obtained numerous patents in Taiwan through its strong R&D capability, offering reliable, efficient solutions to customers.

With its headquarters in Taiwan, Kuan Kun focus on establishing a global presence by founding branches in Hong Kong, China, and other regions. To date, Kuan Kun has become a global aluminum electrolytic capacitor manufacturer, with businesses in Taiwan, China, Japan, South Korea, the United States, and Europe.



Johnson Su  
(CEO)

# Su'scon Global Agents



## Offices

### Taiwan

KUAN KUN ELECTRONIC ENTERPRISE CO., LTD.

### Hong Kong

KUAN SHIH INVESTMENTS CO., LTD.

### Dong Guan

DONG GUAN KUAN KUN ELECTRONIC CO., LTD.

### Dong Guan

DONG GUAN KUAN YI ELECTRONIC CO.,LTD

### Suzhou

DONG GUAN KUAN YI ELECTRONIC CO.,LTD  
SUZHOU BRANCH

## Agents

### Korea

SENSITEK KOREA CO., LTD.  
S.K.C. (SOLUTION KOREA COMPANY)  
FOSCOM  
MARIO TRONICS  
GYE CO., LTD.  
FINE DIGITECH

### Japan

MIKASA SHOJI CO., LTD.

### India

MICRO DEVICES INC.

### Singapore

GSI ELECTRONICS PTE LTD.

### USA

LUMIMAX OPTOELECTRONIC

### Germany

WITTIG ELECTRONIC GMBH

### Italy

SPECIAL-IND S.P.A.

### Switzerland

ALTEC ELECTRONIC AG

### Israel

BETECH ENG. LTD

# Milestone

## Business Expansion Chronology

- 2019 ■ The Business Process Reengineering Project was launched.
- 2014 ■ The Operation Center of Kaun Yi was founded in Suzhou, China.
- 2006 ■ Qingxi Second Factory opened.
- 2001 ■ The headquarters was moved to Zhonghe District, New Taipei City.
- 1999 ■ Production was moved to Qing Xi, Dongguan City, China.
- 1993 ■ A new production line was established in Dongguan City (Humen Town) to meet the demand for company products in China.
- 1981 ■ Production was moved to Shulin District, New Taipei City.
- 1978 ■ In October, our President Mr. Johnson Su founded Kuan Kun Electronic Enterprise Co., Ltd in Taoyuan City, Taiwan.

## Factory

Location	□	Dong Guan, China
Production Capacity	□	3.8 KK pcs/Month
Area	□	56,000 m <sup>2</sup>

## Chronology of R&D and Manufacturing Advances

- 2022 ■ Launched new product, Aluminum Electrolytic Capacitors (AX series).
- 2019 ■ The SMD production line was expanded.
- 2016 ■ Independent workshops of V-chips and Conductive Polymer Hybrid Capacitors vehicle capacitors were established for business expansion to the in-vehicle component market.
- 2015 ■ The production line for large capacitors was redesigned to meet industry needs and for energy market development.
- Stitching, dipping, and equipment were replaced and expanded.
- 2014 ■ R&D was conducted for conductive polymer hybrid aluminum electrolytic capacitors.
- 2007 ■ R&D was conducted for organic conductive aluminum electrolytic capacitors.
- 2006 ■ The production line of V-chips and aluminum electrolytic capacitors was established.
- The development and mass production of radial-type aluminum electrolytic capacitors for audio equipment were realized.
- 2004 ■ The development and mass production of radial-type aluminum electrolytic capacitors with 1000-h load life were realized.
- 2000 ■ A factory was constructed and the production line started; research, development, and mass production of screw-terminal type aluminum electrolytic capacitors were achieved.
- 1989 ■ Fully automated equipment from Japan was introduced.
- 1981 ■ Advanced manufacturing equipment was employed for updating the equipment.

## Chronology of Special Achievements

- 2021 ■ Conductive Polymer Hybrid Capacitors obtained Taiwan patent.
- 2020 ■ Obtained the first Japanese patent for Conductive Polymer Hybrid Capacitors.
- 2019 ■ The Business Process Reengineering Project was launched.
- 2010 ■ The Qing Xi factory passed the QC 080001 and OHSAS 18000 certification.
- The Qing Xi factory passed the ISO/TS 16949 certification.
- 2003 ■ The Qing Xi factory passed the ISO 14001 certification.
- 2002 ■ The Qing Xi factory passed the ISO 9001 certification.
- 2001 ■ The Qing Xi factory in Dongguan was granted with the Advanced Foreign Invested Enterprise award and has since then received the award yearly.



## Su'scon Future Plan

### Focus On The Development of High-End Capacitor Products

- ◆ Actively develop **automotive** special capacitors.
- ◆ Actively develop **medical** special capacitors.

### Productivity Expansion

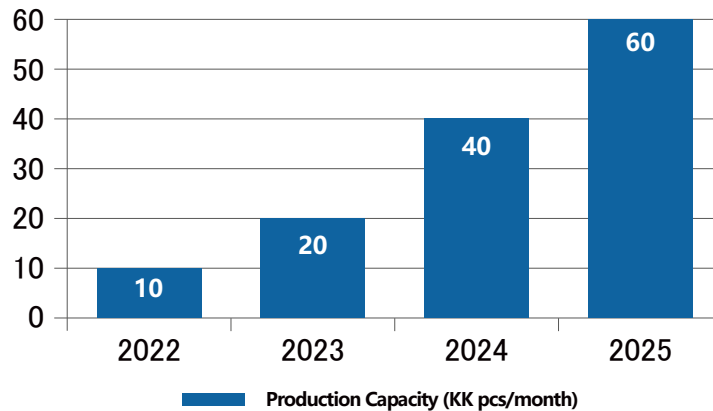
- ◆ We **expand the new** factory to meet the needs of the high-end application market.

### Ensure A Stable Supply of Key Materials

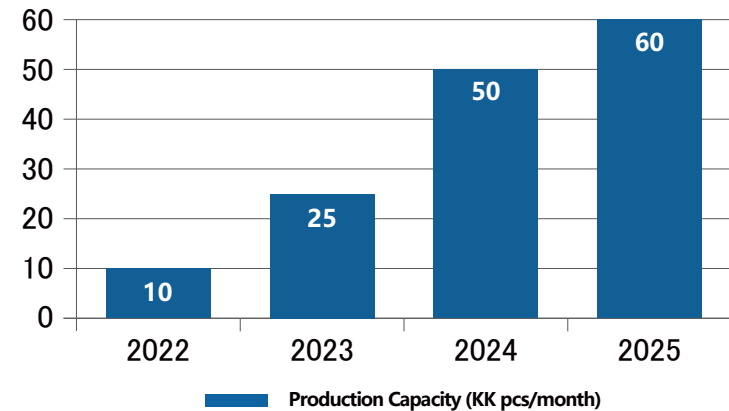
- ◆ Develop high-quality **new suppliers**.
- ◆ Complete test of material properties.
- ◆ Choose suitable materials in product design.
- ◆ Optimize process.
- ◆ **Strictly implement reliability verification.**

# Productivity Planning

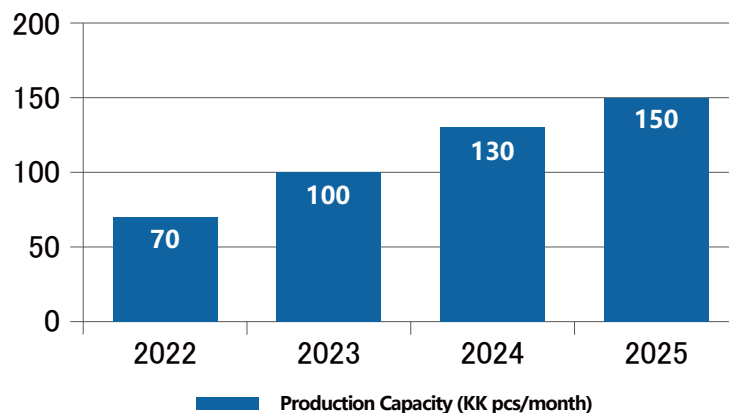
## Conductive Polymer Hybrid Capacitors



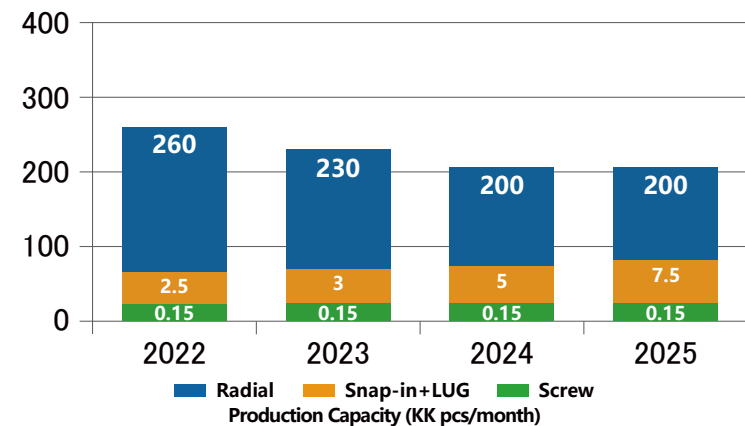
## Conductive Polymer Capacitors



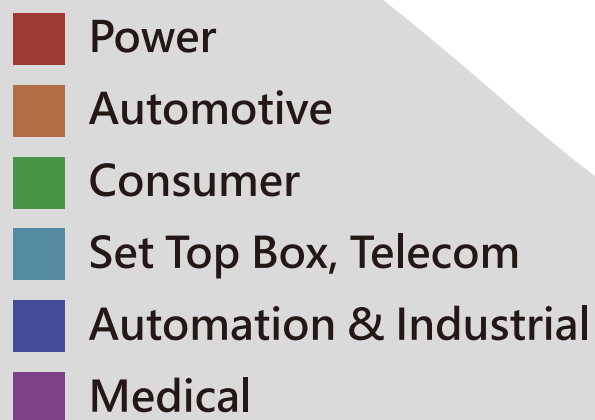
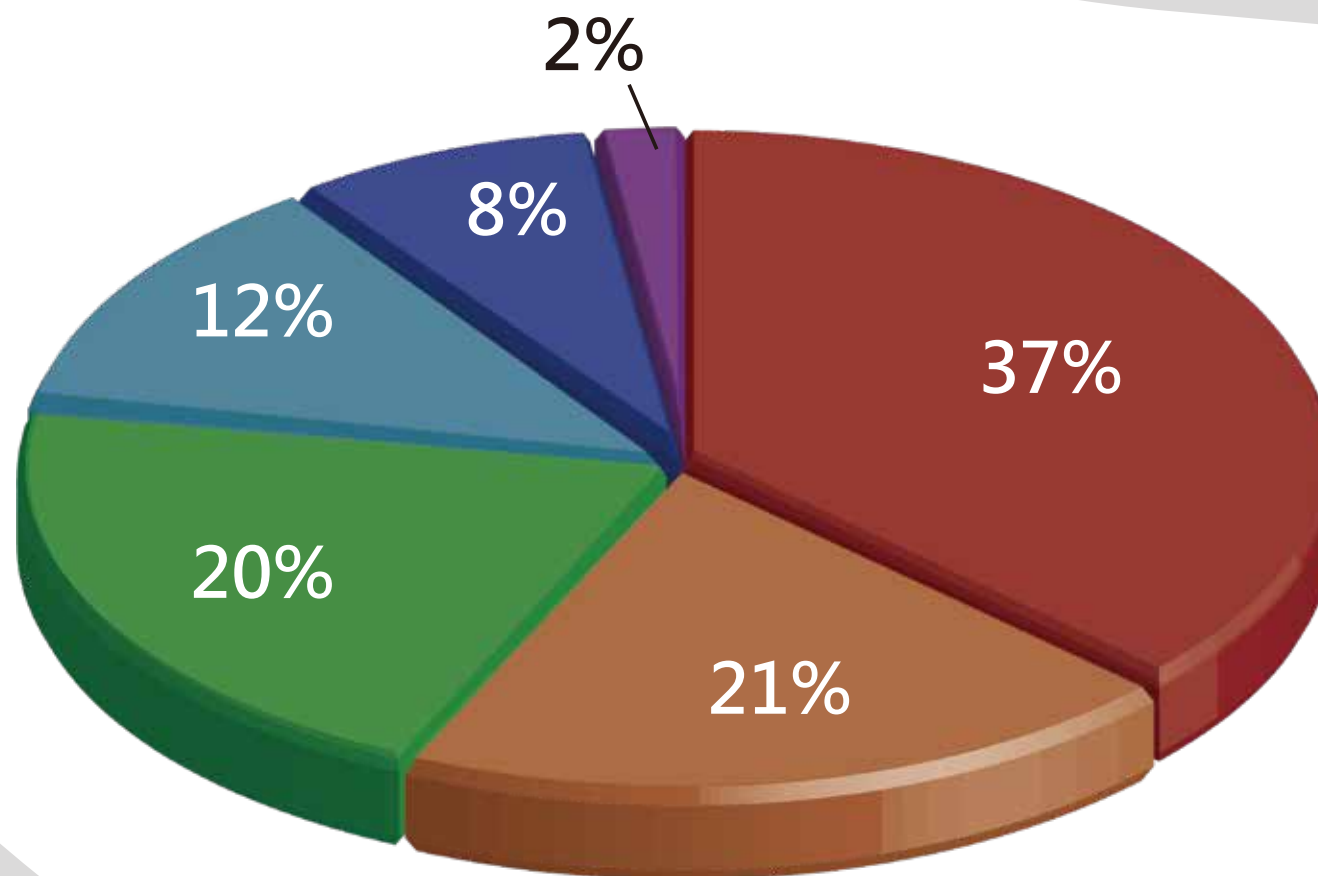
## Aluminum Electrolytic Capacitors (SMD)



## Aluminum Electrolytic Capacitors (DIP)



## Product Ratio



## Su'scon International Professional R&D Team

- ♦ Japanese experts with more than 50 years of experience in **capacitor R&D and manufacturing**.
- ♦ Taiwan and China experts with more than 20 years of experience in **capacitor R&D and quality control**.
- ♦ Engineers from professional fields such as **polymer chemistry and applied chemistry**.

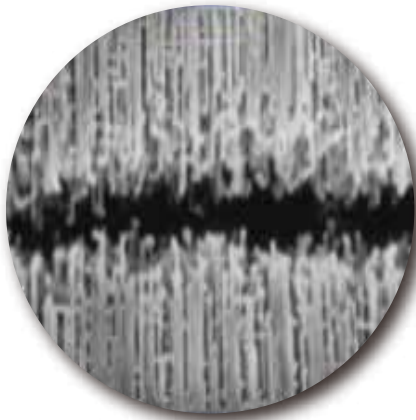


## Patented Technology is World-Renowned

- ♦ Conductive Polymer Hybrid Capacitors has won the patent certificate of **Japan, the United States and Taiwan**.
- ♦ Automotive electronic products obtained the patent of Anti-vibration Seat Plate in **China**.



# Technology Advantages



## New Material Application Technology

To achieve low ESR, high withstand voltage, low ESR by New Material Application Technology.



## R&D Technology

The R&D team, focusing on developing products that meet customer needs.



## Electrolyte Development Technology

The electrolyte of Su'scon increased electrical conductivity, resolved the hydration reaction.



## Equipment Capability Technology

We manufacture aluminum electrolytic capacitors in Dongguan, China.



## **Su'scon Capacity Advantage**

Factory Area  
**56,000m<sup>2</sup>**



6S  
Management



Increase & Updated  
Equipments



Automated  
Production Line



Meet the Needs of  
International Manufacturers  
for Capacitors

Customized  
Solutions

R&D  
&  
Innovation

**Su'scon**

Comprehensive  
Product  
Offering

Excellent  
Quality  
&  
Service

# Professional International Quality Certificate



IATF 16949 : 2016



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018



QC 080000 : 2017

## Strict Control of Materials to Create Excellent Quality

Electrolyte

KUAN KUN

Electrolyte Paper

GLATFELTER, MAX CARRY, TOKYO SANGYO, TT TRADING, KAN, RICON, CRRC

Anode Foil  
(Low Voltage)

HUA FENG, HAIYI, FULL CHEER, LITON,  
EVERCON

Cathode Foil

AFT, FEILO

Anode Foil  
(High Voltage)

JOINWORLD, HAIXING, JINTAI,  
FENGCHUAN

Sleeve (PET)

YUN LIN, BOPU

Lead Wire

NANMING, KINGLIFE, RIHUI

Aluminum Case

OAKLEY, AO XING, YUANKANG, SHIHAO

Rubber Seal

SUNGNAM, LIEN AN, YU FENG,  
LIAN HUA XIN, XIANGHE





# Clean Production And Sustainable Environmental Protection

## QC 080000

Hazardous Substance  
Process Management

Pb-Free Products, non-PVC encasing  
products and RoHS compliance  
materials are available.

## Pb-Free Products

## Environmental-Benefit Products

Comply with RoHS specifications  
sustainable environmental  
protection.

Halogen

Free

RoHSCOMPLIANT



## X-Ray Fluorescence Analysis

To comprehensively  
examine raw materials  
to meet ROHS directives.

**Su'scon**



## ISO 14001 Authorized

Achieving the standardization  
of environmental protection.

# Data Can Be Traced Back To Ensure Our Quality More Reliable

## Aging Process Advantages

Data Management of Each Batch And Each Piece

電容容值C( $\mu$ F)		損失角DF(%)	漏電量LC( $\mu$ A)		漏電量測電壓	等效阻抗ESR(m $\Omega$ )
Hi-Limit	LO-Limit	Hi-Limit	Hi-Limit	LO-Limit	LC Voltage	Hi-Limit
644	476	5	100	0.05	6.3	8





## Process Flow Chart

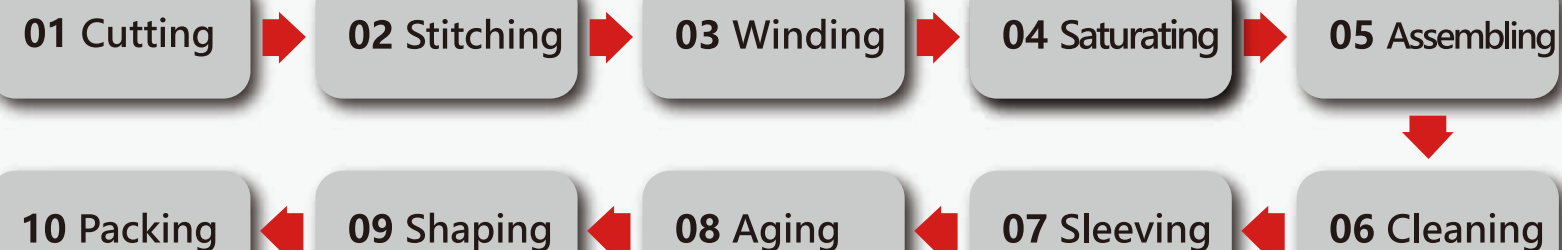
### Conductive Polymer Hybrid Capacitors



### Conductive Polymer Capacitors



### Aluminum Electrolytic Capacitors



## Complete Product Range

### Conductive Polymer Hybrid Capacitors



**SMD**



**Radial**

### Conductive Polymer Capacitors



**SMD**

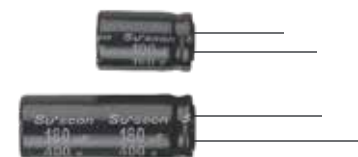


**Radial**

### Aluminum Electrolytic Capacitors

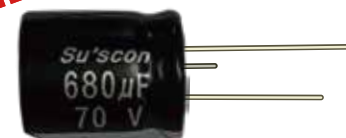


**SMD**



**Radial**

**NEW**



**Radial**

(3 pins · for TCU & ECU)



**Screw  
Terminal**



**LUG  
Terminal**



**Snap In**

## Products Can Be Widely Used In Six Fields



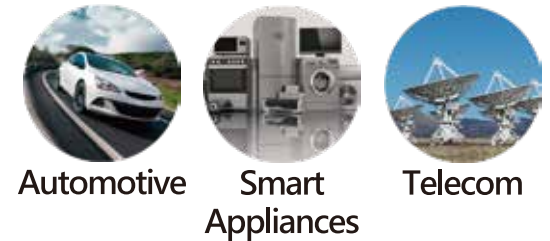


## Conductive Polymer Hybrid Capacitors



### SMD

- ◆ **Rated Voltage**  
16V~125V
- ◆ **Temperature**  
-55 °C ~ +135 °C
- ◆ **Capacitance**  
10 $\mu$ F ~ 560  $\mu$ F
- ◆ **Size Range**  
6.3x6.0~10x12 (mm)
- ◆ **Load Life**  
1,000~10,000 (hrs)



Automotive

Smart  
Appliances

Telecom



### Radial

- ◆ **Rated Voltage**  
16V~125V
- ◆ **Temperature**  
-55 °C ~ +135 °C
- ◆ **Capacitance**  
10 $\mu$ F ~ 560  $\mu$ F
- ◆ **Size Range**  
6.3x7.2~10x11.5 (mm)
- ◆ **Load Life**  
2,000~10,000 (hrs)



Automotive

Smart  
Appliances

Telecom

# Conductive Polymer Capacitors



## SMD

- ◆ **Rated Voltage**  
2.5V~100V
- ◆ **Temperature**  
-55 °C ~+125 °C
- ◆ **Capacitance**  
10 $\mu$ F ~2,200  $\mu$ F
- ◆ **Size Range**  
5x6~10x12.5 (mm)
- ◆ **Load Life**  
1,000~20,000 (hrs)



Medical



Smart  
Appliances



Telecom



Industry



## Radial

- ◆ **Rated Voltage**  
2.5V~100V
- ◆ **Temperature**  
-55 °C ~+125 °C
- ◆ **Capacitance**  
6.8 $\mu$ F ~2,700  $\mu$ F
- ◆ **Size Range**  
5x6~10x20 (mm)
- ◆ **Load Life**  
1,000~20,000 (hrs)



Medical



Smart  
Appliances



Telecom



Industry



# Aluminum Electrolytic Capacitors



## SMD

- ◆ Rated Voltage  
4V~400V
- ◆ Temperature  
-55 °C ~+135 °C
- ◆ Capacitance  
0.1μF ~4,700 μF

- ◆ Size Range  
4.0x5.4~18x21.5 (mm)
- ◆ Load Life  
1,000~10,000 (hrs)



Medical



Smart  
Appliances



Automotive



Industry



Telecom



Renewable  
Energy



## Radial

- ◆ Rated Voltage  
4V~500V
- ◆ Temperature  
-55 °C ~+130 °C
- ◆ Capacitance  
0.1μF ~22,000 μF

- ◆ Size Range  
4x5~25x50 (mm)
- ◆ Load Life  
1,000~20,000 (hrs)



Medical



Smart  
Appliances



Automotive



Industry



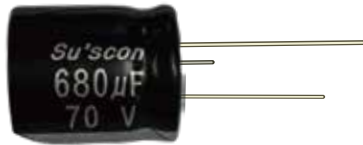
Telecom



Renewable  
Energy

# Aluminum Electrolytic Capacitors

**NEW**



## Radial (3 pins) (For TCU & ECU)

- ◆ Rated Voltage  
10V~100V
- ◆ Temperature  
-40 °C ~ +125 °C
- ◆ Capacitance  
220µF ~ 8,200 µF
- ◆ Size Range  
12.5x15~20x40 (mm)
- ◆ Load Life  
1,000~5,000 (hrs)



Automotive



## Snap In

- ◆ Rated Voltage  
10V~500V
- ◆ Temperature  
-40 °C ~ +105 °C
- ◆ Capacitance  
47µF ~ 68,000 µF
- ◆ Size Range  
20x20~50x100 (mm)
- ◆ Load Life  
2,000~10,000 (hrs)



Medical



Smart  
Appliances



Automotive



Industry



Telecom



Renewable  
Energy

# Aluminum Electrolytic Capacitors



## LUG Terminal

- ◆ **Rated Voltage**  
16V~450V
- ◆ **Temperature**  
-40 °C ~ +105 °C
- ◆ **Capacitance**  
68 $\mu$ F ~ 150,000  $\mu$ F
- ◆ **Size Range**  
25x25~51x105 (mm)
- ◆ **Load Life**  
2,000 (hrs)



Industry



Telecom



Smart Appliances



## Screw Terminal

- ◆ **Rated Voltage**  
16V~650V
- ◆ **Temperature**  
-40 °C ~ +105 °C
- ◆ **Capacitance**  
220 $\mu$ F ~ 1,000,000  $\mu$ F
- ◆ **Size Range**  
35x80~100x250 (mm)
- ◆ **Load Life**  
2,000~5,000 (hrs)



Renewable Energy



Smart Appliances



Telecom

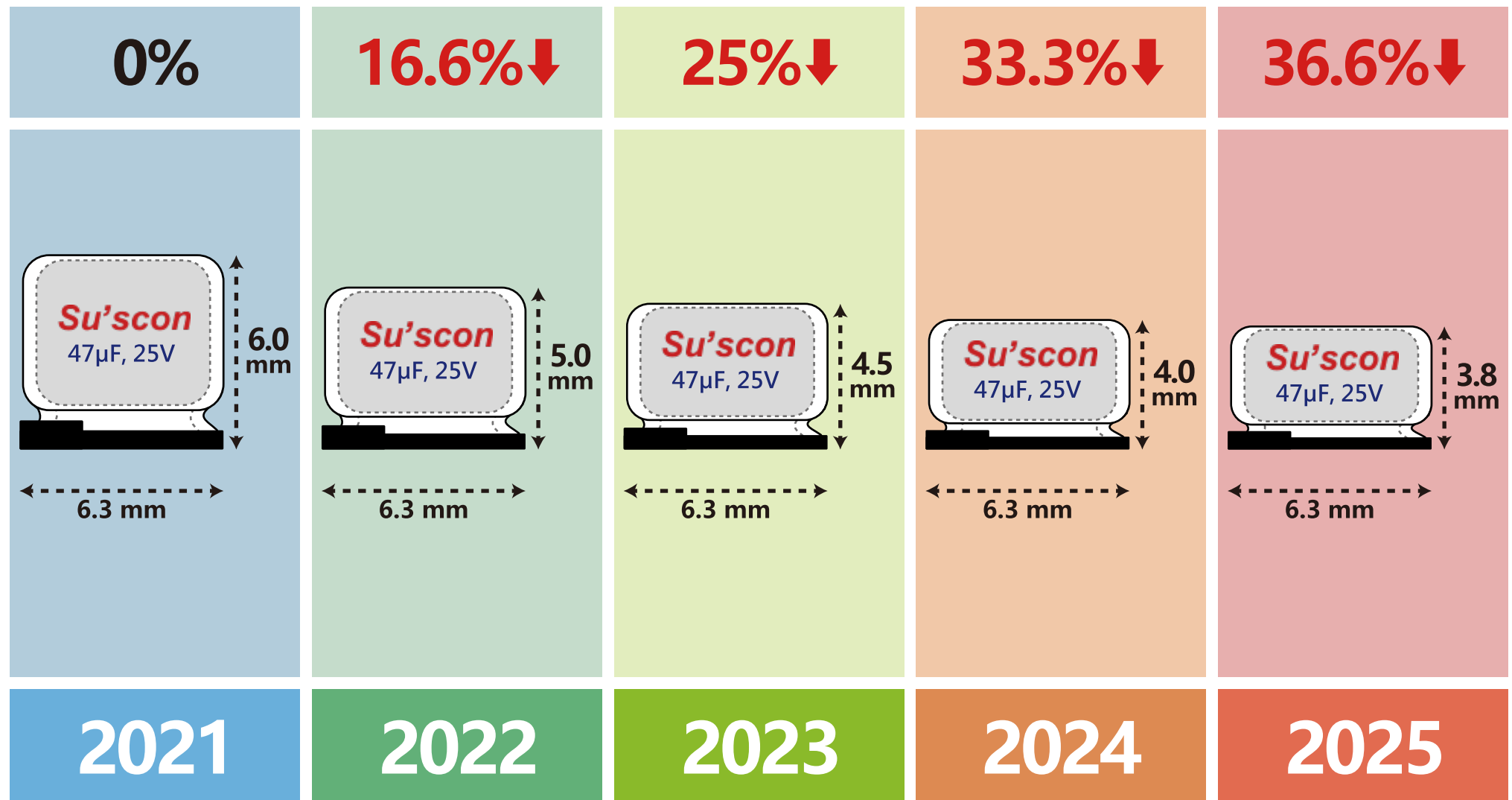


Industry

## Su'scon Product Road Map: Down Size

### Conductive Polymer Capacitors - SMD Type

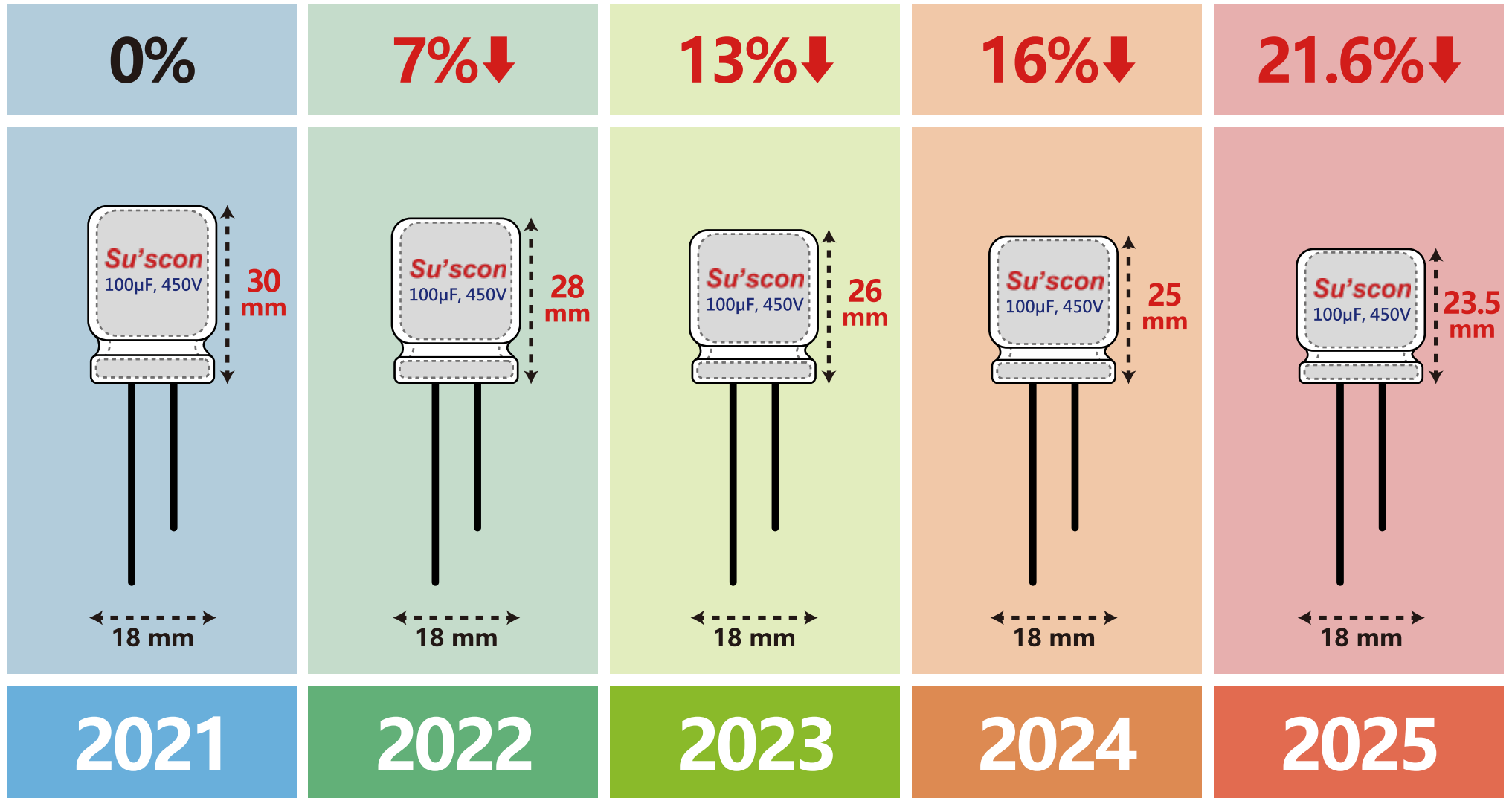
Ex : VT Series 47 $\mu$ F/25V



## Su'scon Product Road Map: Down Size

### Aluminum Electrolytic Capacitors - Radial Type

Ex : SK Series 100 $\mu$ F/450V

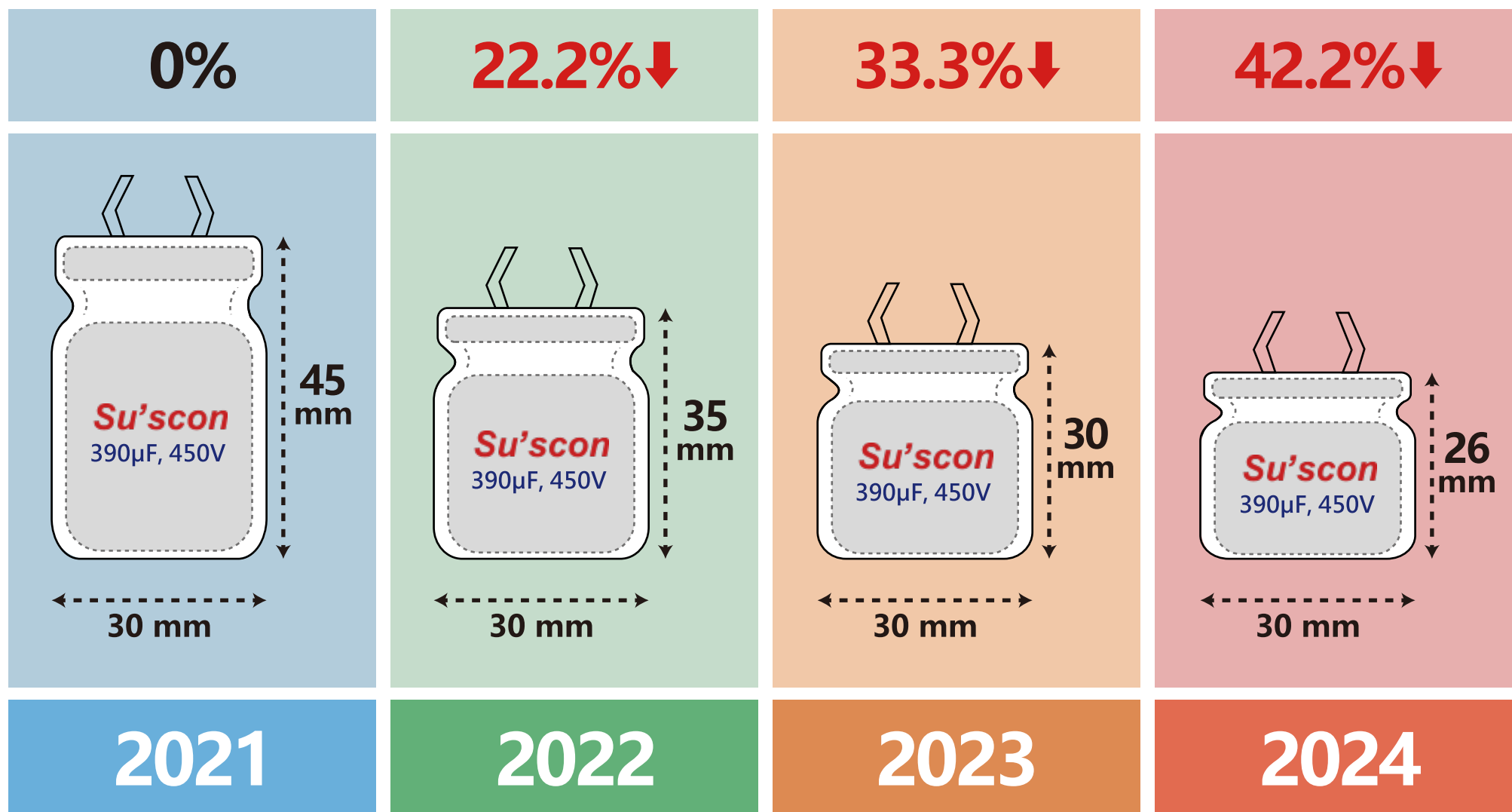




## Su'scon Product Road Map: Down Size

### Aluminum Electrolytic Capacitors - Snap In Type

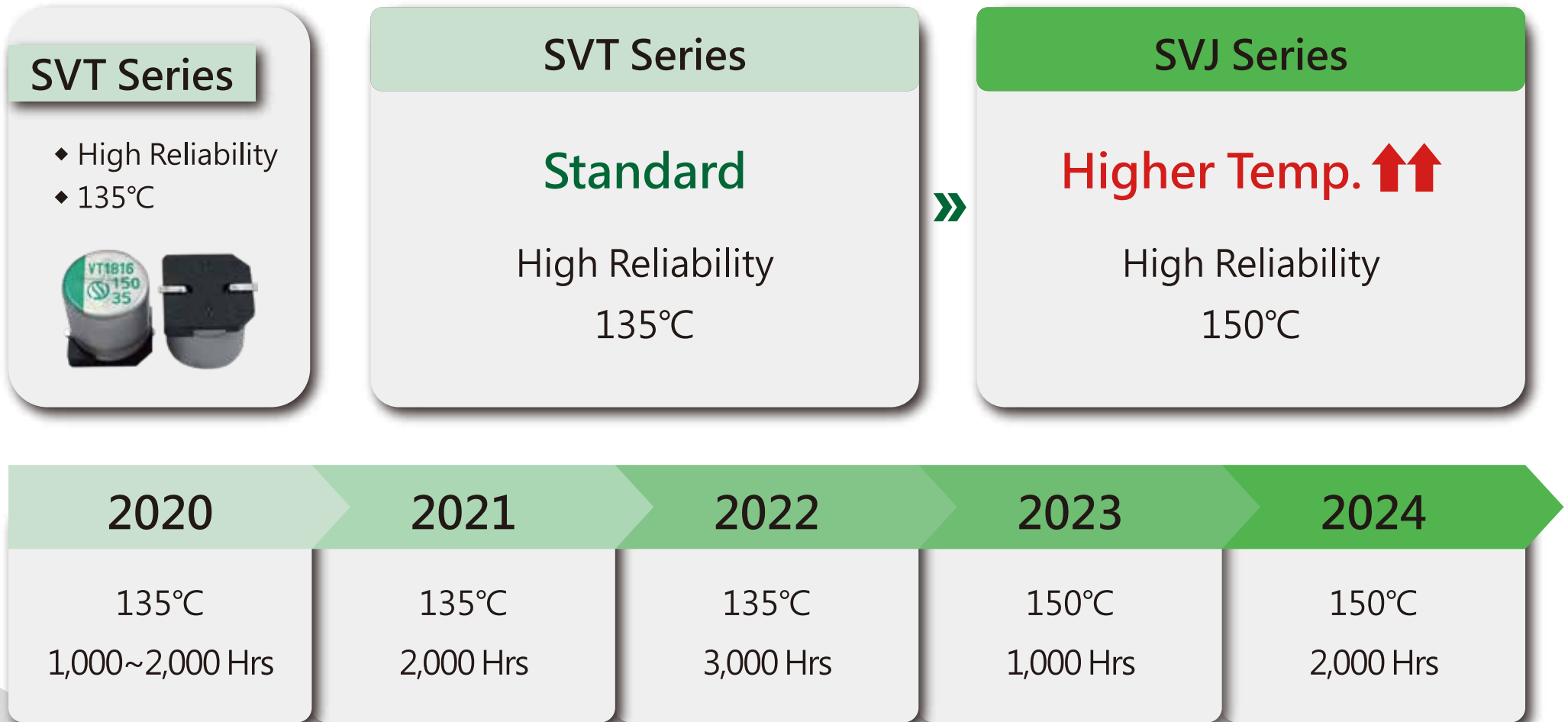
Ex : 390 $\mu$ F/450V



## Conductive Polymer Hybrid Capacitors

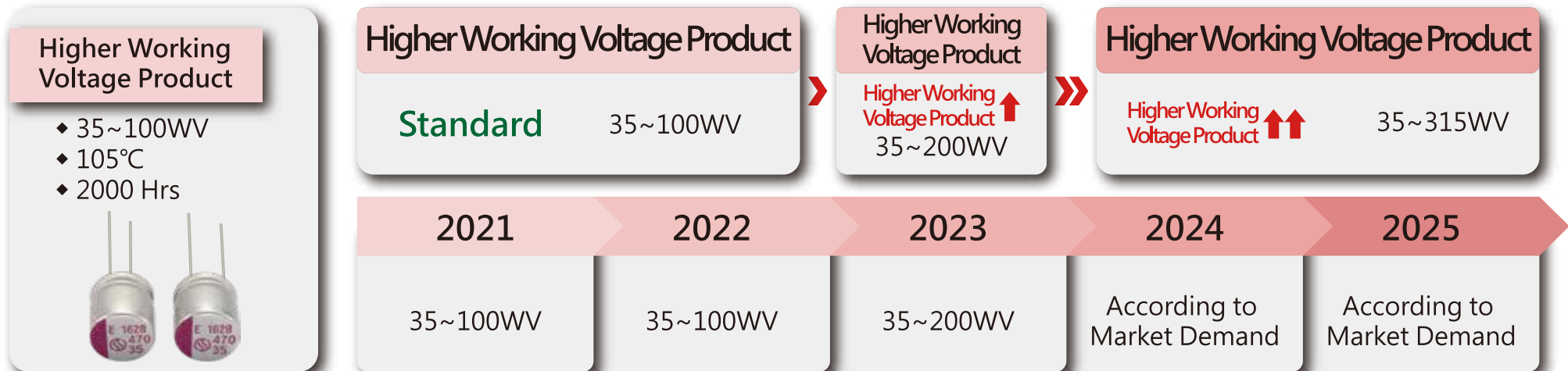
SMD Type : High Temperature Product (Automotive Electronics)

Ex : 270 $\mu$ F/25V



## Conductive Polymer Capacitors

### Radial Type : Higher Working Voltage Product



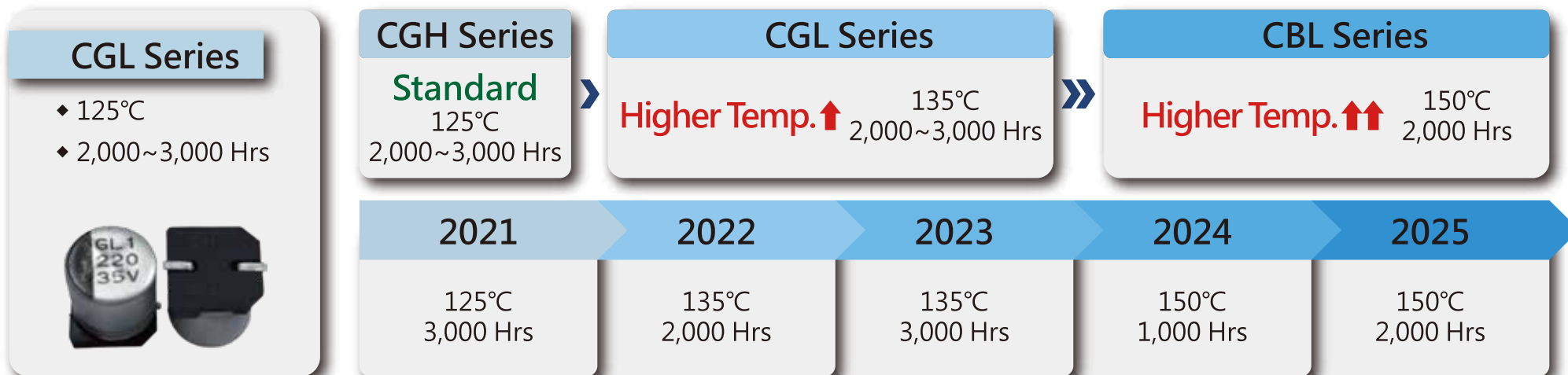
### Radial Type : Lowest ESR Product

Ex : 470μF/6.3V, 8x12(mm)

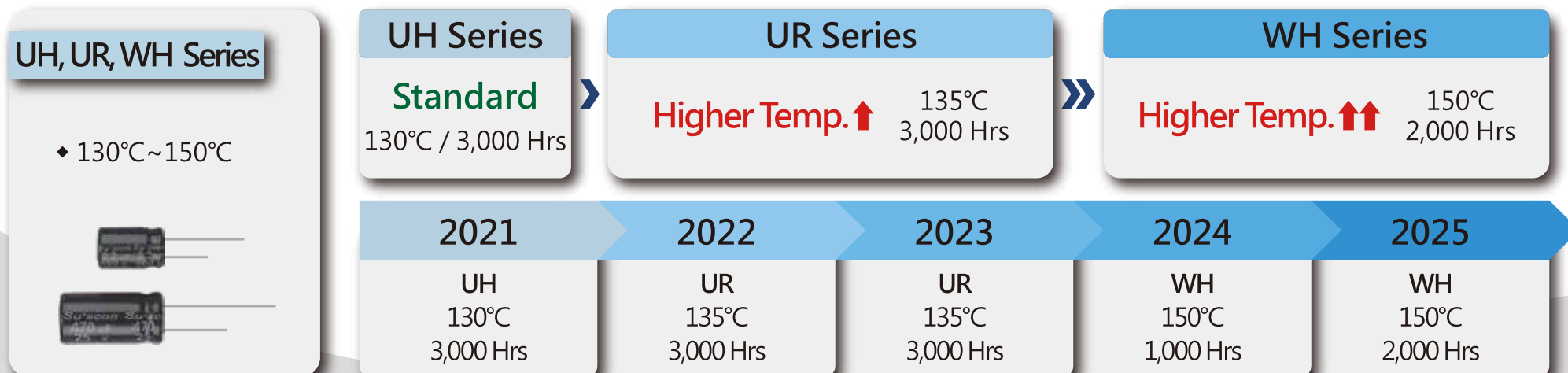


## Aluminum Electrolytic Capacitors

### SMD Type : High Temperature Product (Automotive Electronics)

Ex : 270 $\mu$ F/25V

### Radial Type : High Temperature Product

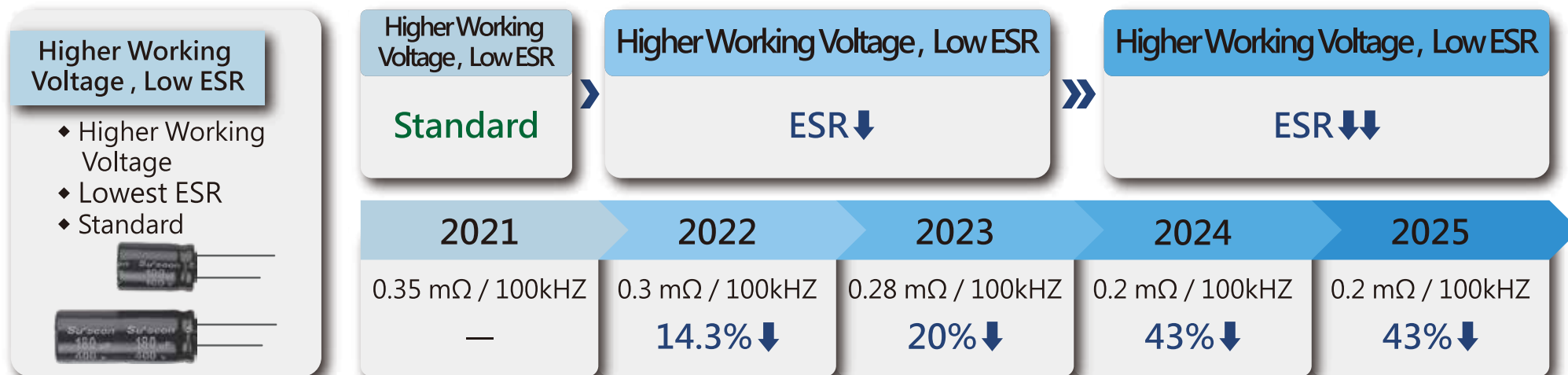


※ For information about axial type products, please contact with sales.

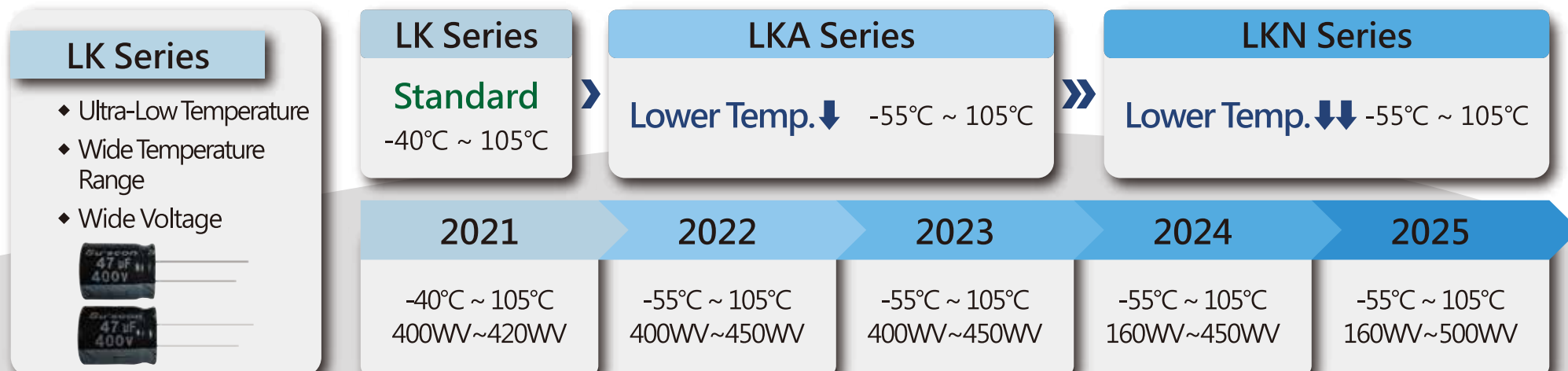
# Aluminum Electrolytic Capacitors

## Radial Type : Higher Working Voltage, Lowest ESR Product

Ex : SD Series (150 $\mu$ F/400V, 18x35 mm)

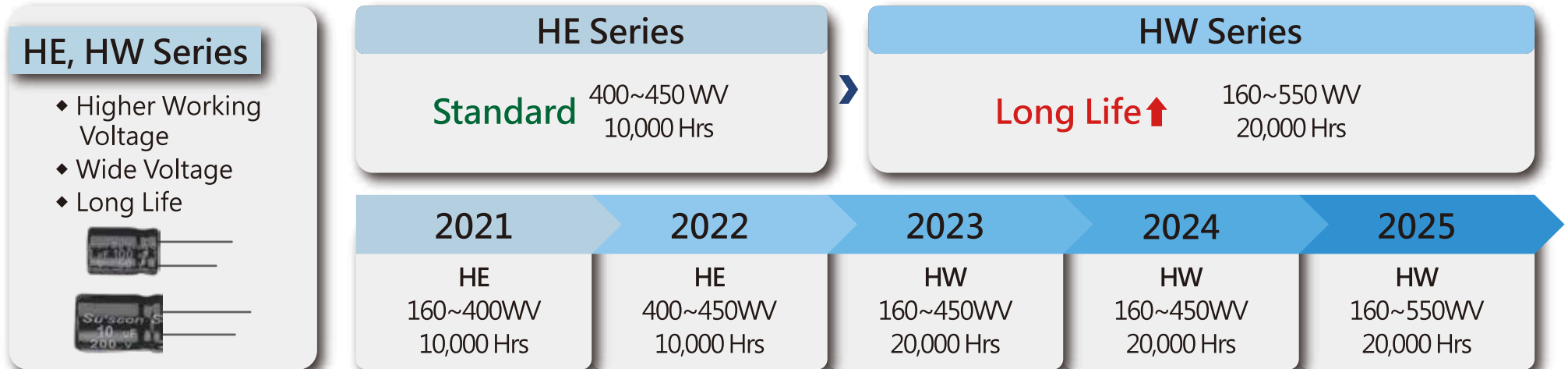


## Radial Type : Low Temperature Product

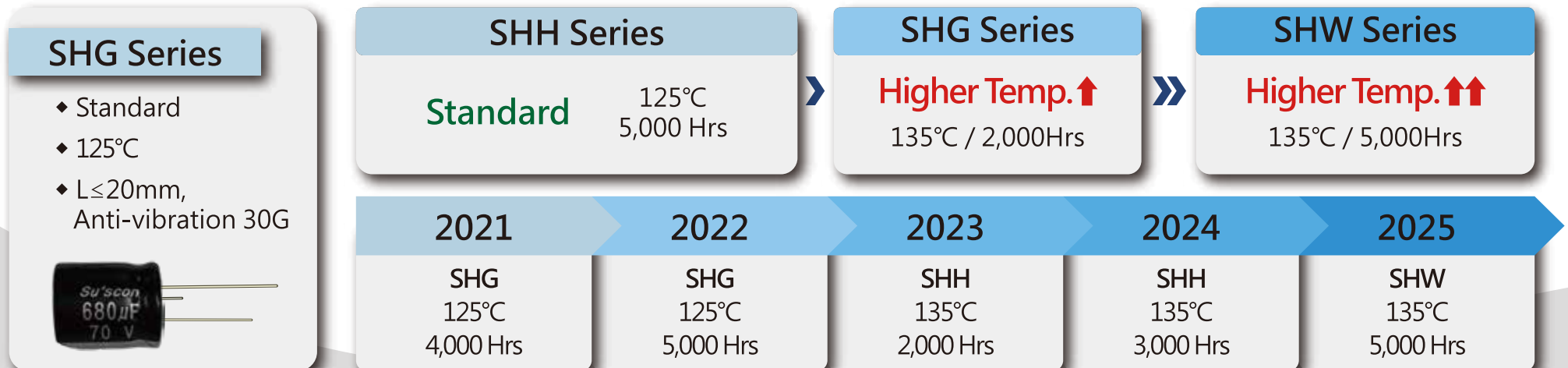


## Aluminum Electrolytic Capacitors

### Radial Type : Long Life Product

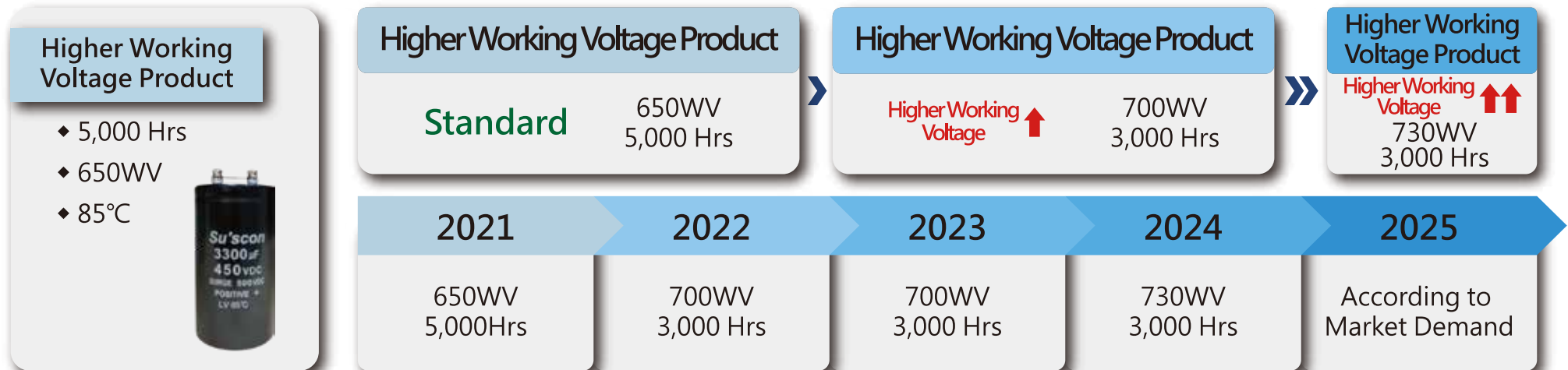


### Radial Type : High Temperature Product of Automotive Electronics ( ECU/TCU )

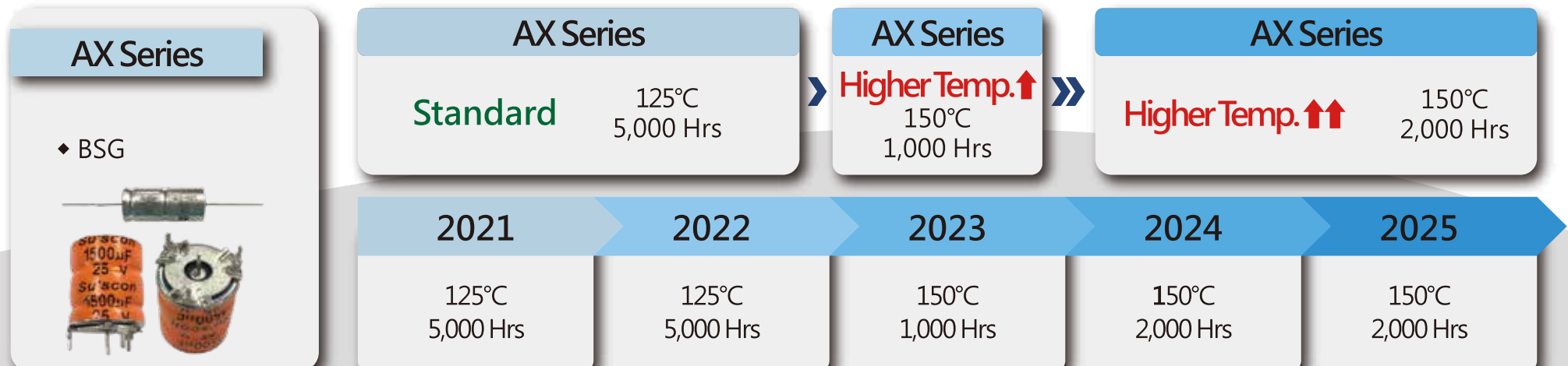


# Aluminum Electrolytic Capacitors

## Screw Type : Higher Working Voltage Product



## Axial Type : High Temperature Product of Automotive Electronics ( BSG/ISG )



※ For information about axial type products, please contact with sales.



## Major Clients

**wistron**

 **LG Innotek**

 **LG**  
Life's Good

**PHILIPS**  
sense and simplicity

 **FUNAI**

**LITEON**

**Panasonic**

**SHARP**

**ONKYO**

 **YAMAHA**

technicolor  


  
**ARRIS**

**JABIL**

**Honeywell**

**ARTESYN**  
Embedded Power | An Advanced Energy Company

**SAMSUNG**

**TAYIH**  
TA YIH INDUSTRIAL CO.,LTD.

**SOLU M**

**JUNIPER**  
NETWORKS

 **MICROTEK**

 **TAMURA**

**LUMINOUS**  
Enjoy Technology

**CIG**

**coway**

**maxell**

 **ASKEY**

 **Celestica**

**MitraStar**

 **CyberTAN**

**arcadyan**

 **KYOCERA**

**WNC**  
Wistron NeWeb Corp

 **PHIHONG**

**POWER NET**

**muRata**  
INNOVATOR IN ELECTRONICS

**RICOH**

 **SALOM**

 **LINKPOWER**  
Absorption Innovation

**POLYTRON**

**ALPHA** Networks

**TECO**

**CyberPower**

**Schneider**  
Electric

**PEGATRON**

**D-Link**  
Building Networks for People

**Hisense**

 **TOA**

 **xiaomi**


**INVENTRONICS**  
DRIVING THE LIGHTING REVOLUTION

**TPV** | 冠捷科技  
VISION INNOVATOR 用心專注 領航視界

 **Y2 SOLUTION**

 聯昌電子企業  
**LIEN CHANG**

**Su-Kam**  
powered by innovation

 亮志科技股份有限公司  
Liangzhi-Tech Industrial Co., Ltd.

**AmTRAN**  
Seeing Better World

**Chicony**

**ANAM**

**Satel**

**ACTIA**

 **HITACHI**

## Major Clients

欧陆通  
HONOTO

AcBel

DVE

KENWOOD  
MapFan Club

INNOLux  
群創光電

HE  
Human & Electronics

Accton  
智邦科技

YUYANG

MINTH

Ktec®  
Intelligent Power

APC®  
by Schneider Electric

COMPAL  
仁寶電腦

BAN  
DAI

APD

SOUND  
UNITED

泰全寶電通  
Ce-Cong Electronics & Communication

CleanPower | Electric Systems  
电气系统

## Major Clients (Automotive Electronics)

台達  
DELTA

FOXCONN®

LG Electronics

• APTIV •

Pioneer

PATAC

WHETRON

UAES

UNICK

JOHNSON  
ELECTRIC

Interface

YESSUN  
Enjoy Your Drive

SHINRY 欣銳科技

PADMINI VNA  
MECHATRONICS PVT. LTD.

联友科技  
LAN-YOU TECHNOLOGY

Linkcom®  
凌康科技

車王電子

EAST® 易事特

Enpower 英博尔

DEPO®

kyungshin

MOBASE

DYAUTO

DOMETIC

flex®

TECSTAR

DUCKIL  
DUCKIL INDUSTRY CO., LTD.

MAGNETI  
MARELLI

Zong Mu

铁将军  
STEEL MATE

电驱动  
EORIVE

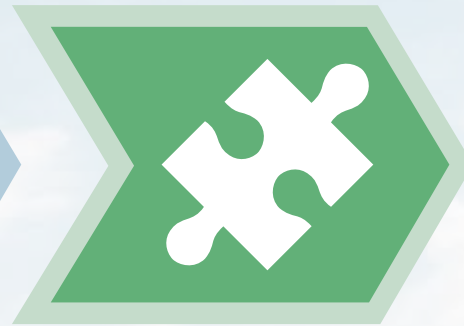
有声汽  
HYPER STEAM

## Our Services



### Identifying Customer Needs

Knowing what our customers want and why.



### Customized Solutions

To provide the best solutions and samples that meet those needs.



### Respond Immediately Delivery on time

Quickly respond to customer inquiries and feedback.  
Strong production capacity ensures on-time delivery.



### Serving our Customers worldwide

Our services and quality of products have earned trust among our customers around the world.



## Contact Us



**Head Office**  
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