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## **NICHICON Develops and Launches the RDS Series of Chip-Type Conductive Polymer Aluminum Solid Electrolytic Capacitors**

NICHICON CORPORATION

Karasumadori Oike-agaru, Nakagyo-ku, Kyoto

Phone: 81-75-231-8461

Inquiries: Katsuhiko Mori, Operating Officer and  
General Manager, Capacitor Business Headquarters

NICHICON CORPORATION has developed and started the mass production of the RDS Series of the chip-type conductive polymer aluminum solid electrolytic capacitors for use in telecommunications and industrial equipment requiring the high reliability. This series maintains the same characteristics as our current RSS Series. The maximum operating temperature is 105°C and has improved endurance at high temperature, achieving an industry-leading durability of up to 3,000 hours at 125°C.

### **Overview and Development Background**

NICHICON CORPORATION continues to promote the chip-type conductive polymer aluminum solid electrolytic capacitors in market categories associated with the high demand for the reliability, including telecommunications and industrial equipment. We have observed the growing demand for improved reliability and extended life in these market categories. We have responded by developing and launching the RDS Series, which will fulfill these needs while setting new industry standards.

### **Features**

This product series uses the conductive polymer technology we have developed over the years. Through process optimization, we have successfully maintained the same favorable characteristics of our existing RSS Series while fulfilling market demand by achieving longer product life at higher temperatures.

### Comparison with Current Products

	RDS Series (new products)	RSS Series (current products)
Life (guaranteed)	<b>3000 hours at 125°C</b> guaranteed DC	2000 hours at 105°C guaranteed DC
Rating	2.5V — 560μF	2.5V — 560μF
Case Size (mm)	φ6.3×5.7L	φ6.3×5.7L
ESR (at 20°C, 100kHz)	<b>25mΩ</b>	25mΩ

### Main Specifications

- Rated voltage range : 2.5 to 16V
- Rated capacitance range : 33 to 820μF
- Category temperature range : -55 to 125°C
- Product dimensions : φ6.3×5.7L to φ8×6.7L(mm)  
(2 sizes, Sequential expansion)
- Life : 3,000 hours guaranteed at 125°C
- Terminal shape : Chip type
- Sample : Currently available
- Mass production launch /  
production capacity : From October 2022  
[Planned production volume: 2 million / month]
- Production plant : NICHICON ELECTRONICS (SUQIAN) CO., LTD.  
NO.18, Yangmingshan Avenue, Suzhou Suqian  
Industrial Park, Suqian, China 223800  
(ISO9001, IATF16949, and ISO14001 certified)



**RDS Series of Chip-Type Conductive Polymer  
Aluminum Solid Electrolytic Capacitors**

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