

October 15, 2018

NICHICON CORPORATION
Karasumadori Oike-agaru, Nakagyo-ku, Kyoto
Phone: +81-75-231-8461
Inquiries: Masanobu Seki, Operating Officer and
General Manager, Capacitor Business Headquarters

NICHICON Launches Mass Production of JUA Series
Low-Resistance Electric Double Layer Capacitors

NICHICON CORPORATION has launched mass production of lead-type low-resistance electric double layer capacitors to meet market need for longer life products. These products will be displayed at CEATEC JAPAN 2018, held at Makuhari Messe from Tuesday, October 16, to Friday, October 19.

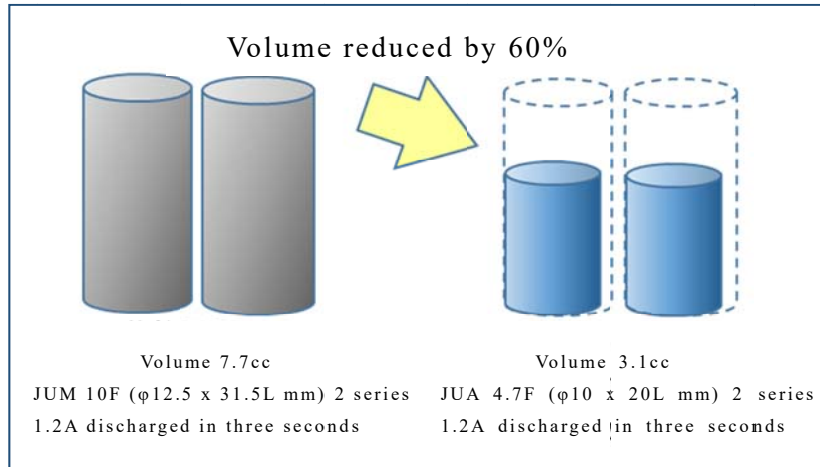
Overview and Development Background

Lead-type low-resistance electric double layer capacitors are used for smart meter backup power sources and auxiliary power sources for printers and projectors, as well as in drive recorders, which are attracting attention as safety equipment, in addition being increasingly used as a backup power sources for impact-sensing door lock systems that automatically unlock all doors when a strong impact to the vehicle is detected. Sales for drive recorders in particular have significantly increased in recent years, used for applications requiring instantaneous output in the event of an emergency, when lower power supply devices with lower resistance are required and when long-term use is necessary. NICHICON developed and launched the JUA Series, offering one-fourth the resistance of current products with double the life at 2,000 hours as a new lead-type low-resistance electric double layer capacitor series meeting market needs.

Features

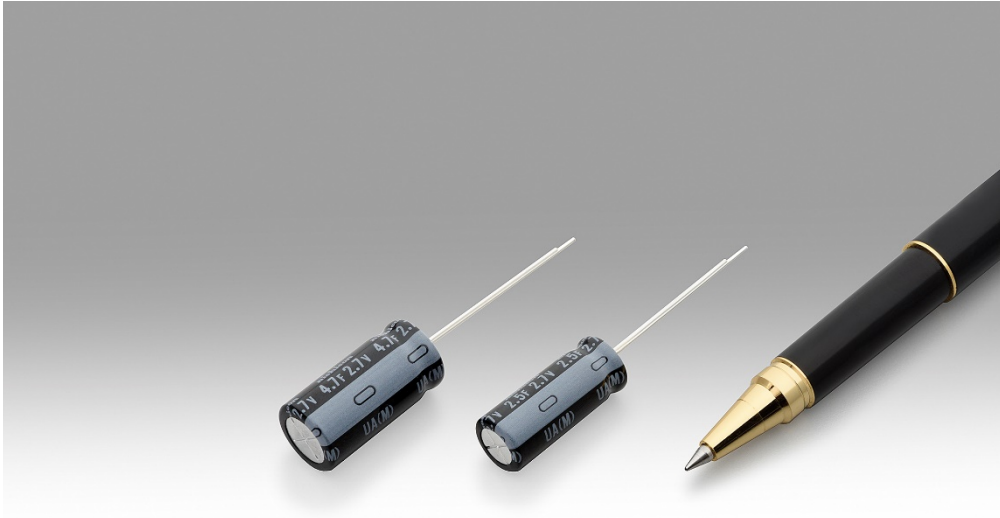
The JUA Series incorporates revisions from a structural perspective in pursuit of low resistance, adopting components that stabilize electrolytes over a long period of time. In addition, the design was optimized overall, including other materials. For applications requiring high instantaneous output, the use of low-resistance devices offer the benefit of reducing voltage drop during discharge and enabling parts miniaturization. For example, devices that discharge 1.2 A for three seconds or more between 5 V and 2 V during use for 10 years at 40°C currently require a volume of 7.7 cc in two series of ϕ 12.5 size, but this newly developed product can be downsized two series to ϕ 10 size and 3.1 cc in volume by approximately 60%, with the installation of this product contributing to the equipment miniaturization.

As a backup power sources, these products are also ideal for portable game devices and storage servers, enabling maintenance-free operation and lower environmental impacts when used to replace secondary batteries.



Main Specifications

- Rated voltage range: 2.7VDC
- Rated capacitance range: 2.5 to 4.7F
- Category temperature range: -40 to +70°C
- Product dimensions: φ8×20L to φ10×20L (mm) (2 sizes)
- Life: 70°C 2,000 hours guaranteed
- Terminal shape: Lead-type
- Samples: To be determined
- Mass production: From October 2018
[Planned production volume: 100,000/month]
- Production plant: NICHICON (OHNO) CORPORATION, Site III
Factory
4085 Toyoshina, Azumino, Nagano Prefecture
(ISO 9001, ISO/TS 16949 and ISO 14001 certified)



**The JUA series of
low-resistance electric double-layer capacitors**