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NICHICON Launches UYA Series of Chip-Type Aluminum Electrolytic Capacitors Guaranteed for 5,000 Hours at 125°C

NICHICON CORPORATION

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NICHICON CORPORATION has launched the UYA series of chip-type aluminum electrolytic capacitors. The series boasts high temperature resistance and long life, making it ideal for 5G base station applications.

The new products will be exhibited at CEATEC 2021 ONLINE from Tuesday, October 19, to Friday, October 22.

Overview and Development Background

Providing widespread 5G coverage requires more base stations than was the case with 4G/LTE. 5G base stations are typically installed in urban areas with limited space or in locations where maintenance is difficult. Base stations will need to be smaller through high-density mounting and more reliable (maintenance-free) through fanless mounting and other techniques. For this reason, base stations call for miniaturized mounted components that have high temperature resistance and long life. NICHICON has launched the UYA series of chip-type aluminum electrolytic capacitors guaranteed for 5,000 hours at 125°C in response to these market needs.

Features

In designing the UYA series, NICHICON used a low-evaporation electrolyte to achieve a longer product life than was previously available. Adopting the series enables the optimization of products' internal specifications, which saves space for other necessary components. With an optimally shaped seating plate, the series also provides excellent solderability. The UYA series makes it possible to meet the demand for long-life in 5G base station components.

Main Specifications

Rated voltage range:	63 to 100V
Rated capacitance range:	90 to 880 μ F
Category temperature range:	-40 to 125°C
Product dimensions:	ϕ 12.5 \times 13.5L to ϕ 18 \times 21.5L (15 sizes)
Life:	5,000 hours guaranteed at 125°C (when voltage is applied)
Terminal shape:	Chip type
Samples:	Currently available
Mass production:	From September 2021 [Planned production volume: 50000/month]
Production plant:	NICHICON (OHNO) CORPORATION 1-11-2 Shimoyoro, Ono, Fukui Prefecture (ISO 9001, IATF 16949, and ISO 14001 certified)

• See following table for product sizes and ratings

μ F) Cap		V		63		80		100	
		Code		1J		1K		2A	
90	900							12.5 \times 13.5	650
160	161					12.5 \times 13.5	650	16 \times 16.5	930
200	201							18 \times 16.5	1000
240	241	12.5 \times 13.5	650					16 \times 21.5	1500
270	271					16 \times 16.5	930		
330	331							18 \times 21.5	1600
360	361					18 \times 16.5	1000		
430	431	16 \times 16.5	930	16 \times 21.5	1500				
560	561	18 \times 16.5	1000	18 \times 21.5	1600				
660	661	16 \times 21.5	1500					Case size ϕ D \times L (mm)	Rated ripple
880	881	18 \times 21.5	1600						

Rated ripple current (mArms) at 125°C 100kHz



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