

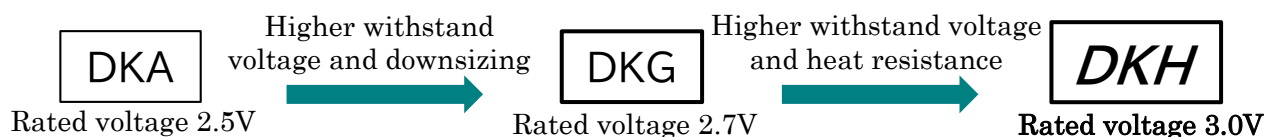


# Press Release

Nippon Chemi-Con Corporation  
May 17, 2022

## 3.0V Withstand Voltage Radial Lead Type Supercapacitors DKH Series

Nippon Chemi-Con has newly developed radial lead type supercapacitors DKH Series with improved withstand voltage and heat resistance. This is an addition to the existing DKA Series and DKG Series which have been used in backup automotive power supplies.



The DKH Series can withstand a rated voltage of 3.0V<sup>1</sup> and realizes a higher heat resistance of 85°C<sup>2</sup> and smaller size<sup>3</sup>.

<sup>1</sup> When used at specified temperature 65°C

<sup>2</sup> When used at rated voltage 2.6V

<sup>3</sup> 20% smaller than DKA Series, equal to DKG Series

The higher withstand voltage increases the energy amount of each cell and achieves downsizing and weight reduction of systems through the reduction of total installed capacitors.

Main applications are backup power supplies for automotive electronics in emergencies. The Series will contribute to the optimization of equipment design for electric door locks, shift-by-wires, EPS (electric power steering) and dashboard cameras.

We will continue using liquid electrolyte that does not contain acetonitrile (AN) solvent, which may produce cyanide gas.

We have also achieved the world's first 2,000-hour guarantee at 3.2V50°C for radial lead type supercapacitors.

(\*Based on internal research, March 2022)

### Main Specifications

- Category temperature range: -20°C to +85°C
- Rated voltage: 3.0V
- Capacitance: 50F
- Internal resistance: 29mΩ
- Case size: ø 18×40Lmm
- Endurance: 2,000 hours at 3.2V50°C, 3.0V65°C, 2.6V85°C

## **Samples and Mass Production**

Samples: May 2022

Mass production: December 2023

## **Production Site**

Chemi-Con Yamagata Corp. Yonezawa Plant

## **Product Appearance**

