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## **New $\phi$ 3.3 and $\phi$ 4 sizes to SLB Series of small Li-Ion rechargeable batteries**

NICHICON CORPORATION

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NICHICON CORPORATION has added  $\phi$ 3.3 and  $\phi$ 4 sizes to the "SLB series" of small li-ion rechargeable batteries.

The products will be displayed at NICHICON's booth TECHNO-FRONTIER 2021's 36th Power System Japan Expo.

### **Overview and Development Background**

Small li-ion rechargeable batteries are indispensable for new products and services utilizing IoT, big data, artificial intelligence, and the cloud, expansion of energy harvesting systems that convert natural energy such as light, heat, vibration, and radio waves into electricity, and evolution of car electronics that realizes automatic operation. NICHICON has added additional sizes to accommodate expanded applications.

### **Features**

This product has rapid charge/discharge performance at a high rate \* (maximum 20C) and achieves a high input/output density approaching that of an electric double layer capacitor. In addition, the SLB series has durability that allows them to be cycled tens of thousands of times at high rates and has low temperature characteristics that enable operation at -30°C. The use of lithium metal, which prevents short circuits and deterioration, and reduces the risk of catching fire or emitting smoke making it a truly safe battery.

NICHICON has now added a to the lineup products with 3.3mm diameter width a length of 9mm and a 4mm diameter with a 25.5 mm length. The main anticipated applications are stylus pens, and batteries for IoT edge terminals, etc.

NICHICON will continue to actively develop product groups that deliver efficient energy usage, and help build a bright future for society and prevent global warming.

Terminology Explanation

\*High-rate rapid charge/discharge: The current rate when charging/discharging battery capacity in one hour is defined as 1C. The ability to charge at a rate greater than 1C indicates high-rate rapid charge/discharge performance.

### **Main Specifications**

- Rated voltage range: 2.4V
- Maximum charging voltage: 2.8V
- Discharge end voltage: 1.8V
- Rating capacity: 0.80mAh、 4.0mAh
- Category temperature range: -30 to +60°C
- Maximum current: 20C (continuous)
- Product dimensions:  $\phi$ 3.3×9L (mm),  $\phi$ 4×25.5L (mm)
- Terminal shape: Lead type
- Samples: Currently available
- Mass production: From April 2022
- Production plant: NICHICON (OHNO) CORPORATION,  
SITE II Factory  
4-24-15 Technology Center, Tsuchifugo,  
Ono, Fukui Prefecture  
(ISO 9001, IATF 16949, and ISO 14001 certified)



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