



# Press Release

Nippon Chemi-Con Corporation  
September 21, 2016

## Development of Snap-in Type Aluminum Electrolytic Capacitors KVS/LVS Series

Vibration resistant products for on-board chargers  
[KVS: 3,000 hours at 105°C/LVS: 5,000 hours at 105°C]

Nippon Chemi-Con has developed snap-in type aluminum electrolytic capacitors KVS Series and LVS Series with improved vibration resistance.

We position the car electronics market as a strategic market. These new products are suited for on-board chargers for EVs and PHVs, where growth is expected in the future.

We have individually addressed the needs of our customers for such applications, but in response to growing needs, we have decided to mass-produce them as standard products. This is the first mass-production of snap-in type aluminum electrolytic capacitors for on-board chargers.

We have achieved a vibration resistance performance of 10 to 2000 Hz, two hours for each axis (X-Y-Z), and 15G vibration acceleration at the end of life (EOL) by embedding our proprietary specially structured pressure valve into the existing KMS Series and LXS Series.

Standard products of the KVS Series and LVS Series have a rated voltage range of 400 to 450V, case sizes  $\phi 30 \times 25$  Lmm to  $\phi 35 \times 50$  Lmm and a capacitance range of 180 to 820 $\mu$ F.

### [Samples and Mass Production]

The KVS Series and the LVS Series are scheduled to be available as samples from September 2016, and mass production is scheduled to start in October 2016. Production will be held at Chemi-Con Fukushima Corp. (a wholly owned subsidiary of Nippon Chemi-Con) Production will also gradually start at Chemi-Con (Malaysia) Sdn. Bhd. as soon as the production system is prepared.

### [Main Specifications (KVS/LVS)]

- Category temperature range: -25°C to +105°C
- Endurance: guarantees 3,000 hours at 105°C (KVS)  
guarantees 5,000 hours at 105°C (LVS)
- Vibration resistance: 10 to 2000 Hz, two hours for each axis, 15G at EOL
- Rated voltage range: 400 to 450V
- Capacitance range: 180 to 820 $\mu$ F
- Case size:  $\phi 30 \times 25$  to  $\phi 35 \times 50$  Lmm
- Rated ripple current: equivalent to the KMS/LXS Series

[Product Appearance]

