



# Press Release

Nippon Chemi-Con Corporation  
April 8, 2016

## **Development of Snap-in Type Aluminum Electrolytic Capacitors KLA Series**

**High-ripple products with high temperature resistance for home  
appliances [guarantees 3,000 hours at 105°C]**

Nippon Chemi-Con has developed snap-in type aluminum electrolytic capacitors KLA Series specialized for home appliances.

We position the car electronics, industrial equipment inverters, new energy, home appliances, and network markets as priority markets. We have a lineup of snap-in type aluminum electrolytic capacitors especially suited for air conditioners in the home appliances market.

The KLA Series is a high allowable ripple current product that guarantees 3,000 hours at 105°C. This was achieved by improving the temperature response from the conventional RLA Series for white goods that require long-term reliability. (The RLA Series guarantees 3,000 hours at 85°C)

The products will be commercialized with a 180 to 250V rated voltage range, case sizes  $\phi 30 \times 35$  L to  $\phi 35 \times 55$  L (mm), and a 600 to 2000 $\mu$ F capacitance range.

### [Samples and Mass Production]

The KLA Series will be available as samples from April 2016, and mass production is scheduled to start in May 2016. They will be produced at Chemi-Con Fukushima Corp. (a wholly owned subsidiary of Nippon Chemi-Con) and we will also begin production at Chemi-Con (Malaysia) Sdn. Bhd.

### [Main Specifications]

- Category temperature range: -25°C to +105°C
- Endurance: guarantees 3,000 hours at 105°C
- Rated voltage range: 180 to 250V
- Capacitance range: 600 to 2000 $\mu$ F
- Case size:  $\phi 30 \times 35$  L to  $\phi 35 \times 55$  Lmm

[Product Features]

Performance comparison at 30A (Compared to general-purpose products KMS Series)



	General-purpose products (KMS): 180V-1800uF (φ35x35L) Ir=3.68 Arms	Newly developed products (KLA): 180V-1800uF (φ35x45L) Ir=4.80 Arms
Required quantity	4	3
Mounting surface area of substrate (cm <sup>2</sup> )	49.0cm <sup>2</sup>	36.75cm <sup>2</sup>
Total capacitance (uF)	7200uF	5400uF
Total ripple current (120Hz/105°C)	14.72 Arms	14.40 Arms

By using the KLA Series, the number of parallel connections and the total capacitance can be reduced. In addition, space can be saved due to the reduction of mounting surface area.

[Product Appearance]

