



## *Press Release*

Nippon Chemi-Con Corporation  
September 21, 2016

### **Radial Lead Type Aluminum Electrolytic Capacitors KZQ Series** Capacitors for secondary-side filtering guaranteeing 4,000 to 5,000 hours at 105°C

Nippon Chemi-Con has developed the KZQ Series, with higher capacitance and lower impedance than the existing low-impedance aluminum electrolytic capacitors KZH Series. The KZH Series was commercialized for output filtering of power supplies for low voltage and adapters.

Compared to the KZH Series of the same size, the KZQ Series has achieved a 20 to 50% higher capacitance and a 10 to 20% lower impedance. They will further contribute to the downsizing and higher ripple of units.

Our low-impedance aluminum electrolytic capacitors have achieved excellent low-impedance characteristics by adopting a low-resistance electrolyte. The KZQ Series has achieved excellent low-impedance characteristics in the high-frequency range due to resistance lowering technology from the electrolyte and the adoption of a newly developed high-capacitance electrode foil, as well as reviewing the element structure. This is how we have developed a product that is smaller and has higher capacitance than conventional products.

#### [Samples and Mass Production]

Samples: July 2016

Mass production: scheduled for November 2016

#### [Main Specifications]

- Category temperature range: -40°C to +105°C
- Endurance: guarantees 4,000 to 5,000 hours at 105°C
- Rated voltage range: 16V, 25V
- Capacitance range: 330 to 2,200 $\mu$ F
- Case size:  $\phi$ 8 x 11.5 L, 20 Lmm  
 $\phi$ 10 x 16 to 25 Lmm

[Comparison of Electrical Specifications]

(20°C)

Case size φD×L [mm]	Rated voltage [Vdc]	Cap. [μF/120Hz]		Impedance [mΩmax/20°C 100kHz]		Rated ripple current [mA <sub>rms</sub> /105°C 100kHz]	
		KZH	<b><u>KZQ</u></b>	KZH	<b><u>KZQ</u></b>	KZH	<b><u>KZQ</u></b>
8x11.5	16	470	560	62	<b>49</b>	900	<b>1060</b>
	25	330	330				
8x20	16	1000	1200	33	<b>27</b>	1410	<b>1660</b>
	25	560	680				
10x16	16	1000	1200	32	<b>25</b>	1650	<b>1930</b>
	25	680	820				
10x20	16	1500	1800	20	<b>18</b>	1960	<b>2130</b>
	25	820	1200				
10x25	16	1800	2200	18	<b>15</b>	2250	<b>2500</b>

[Product Appearance]

