



Press Release

Nippon Chemi-Con Corporation
May 8, 2015

High Ripple Product Added to the "PSG Series" Radial Lead Type Conductive Polymer Aluminum Solid Capacitors Rated Ripple Current Increased by 35% Compared with Previous Product

Nippon Chemi-Con has added a high ripple product to its radial lead type conductive polymer aluminum solid capacitor "PSG Series" to expand its product line.

In the products in the current PSG series, the rated ripple current was 4,000 mArms for specifications of 16 volts, 470 uF, $\phi 8 \times 8.0$ L mm. This has been greatly increased by 35 percent to 5,400 mArms. Comparing this new product with the previous 16 volt, 470 uF, $\phi 8 \times 11.5$ L mm PSF series product, the volume was also reduced by 30 percent while maintaining an equivalent rated ripple current.

With personal computers and servers growing smaller and thinner, there is a demand for smaller and space-saving power supply components. There is also a demand for greater efficiency, so in order to meet these demands more conductive polymer aluminum solid capacitors are being used for the secondary side of power supplies.

In order to meet these market trends, we added a product with a high ripple current to the high capacitance PSG series that are used for power supplies. By doing this, we have been able to help reduce space by reducing the number of secondary smoothing capacitors necessary, and this has helped to make power supplies smaller and more efficient.

<<Technological Points>>

The following are the points of focus in achieving a high ripple current:

- We succeeded in forming a highly reliable and highly conductive 16 volt polymer by reexamining the materials and methods used for making conductive polymer. This has helped us achieve a lower ESR (higher ripple current).

<<Sample Availability and Mass Production Schedule>>

Samples: April 2015

Mass production: April 2015

<<Production Location>>

Chemi-Con Yonezawa Corporation

<<Main Specifications>>

- Category temperature range: -55°C to +105°C
- Endurance: 20,000 hours at 105°C

Newly added product

Series	Rated voltage [Vdc]	Capacitance [μ F]	Size mm	Equivalent series resistance (ESR) [$m\Omega$ max] [20°C, 100 k to 300 kHz]	Rated ripple current [mA _{rms} /105°C, 100 kHz]
PSG	16	470	ϕ 8×8 L	8	5,400

<<Product Appearance>>

