



Press Release

Nippon Chemi-Con Corporation
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SMD Type Conductive Polymer Aluminum Solid Capacitors Expanding the PXG Series of products

Nippon Chemi-Con added high-capacitance items to expand the product line for the PXG Series of SMD type conductive polymer aluminum solid capacitors. We expanded its lineup of products with a rated voltage of 25Vdc by adding products that achieve roughly 20% to 40% higher capacitance compared to existing products of the same size.

The continued trend of downsizing and slimming for computers and servers means that size reductions and space saving must be achieved for the PSU sets that supply power. There is also increased demand for higher efficiency. To meet these demands, conductive polymer aluminum solid capacitors are increasingly being used on the output side of the PSU.

In response to these market trends, we added high-capacitance items to the existing PXG Series products with a rated voltage of 25Vdc, which we developed for use in PSU devices. We contribute to device size reduction and board space savings by reducing the number of output smoothing capacitors.

Technical Features

We achieved higher capacitance for products with a rated voltage of 25Vdc by applying technology for uniformly forming a conductive polymer on a new high-capacity electrode foil with a wider surface area than existing products.

Samples and Mass Production

- Samples: available
- Mass production: available

Production Site

Chemi-Con East Japan Corp. Miyagi Plant

Main Specifications

- Category temperature range: -55°C to +105°C
- Endurance: 3,000 to 15,000 hours at 25Vdc105°C

Specifications of Newly Added Products

Series	Rated voltage [Vdc]	Capacitance range [μ F]	Case size [mm]	Equivalent series resistance (ESR) [m Ω max] (20°C, 100k to 300kHz)	Rated ripple current [mA _{rms}] (105°C, 100kHz)
PXG	25	27	ø6.3×4.4	45	2,350
		68	ø6.3×5.8	30	2,800
		120	ø6.3×7.7	28	2,800
		150	ø8×7.7	28	3,000
		180	ø10×7.7	25	3,400

Product Appearance

