



# *Press Release*

Nippon Chemi-Con Corporation

May 8, 2015

## **Development of the High Humidity-resistant "PXT" Series SMD type Conductive Polymer Aluminum Solid Capacitors Guaranteed for 1000 Hours at 85°C, 85% RH**

Nippon Chemi-Con has developed the new "PXT Series" SMD type conductive polymer aluminum solid capacitors with improved humidity resistance performance to expand its product line.

The conductive polymer aluminum solid capacitor "NPCAP™" has ultra-low ESR properties for superior noise absorption, and is the perfect component for many digital information and home appliance products, such as personal computers.

In recent years, there is demand for electronic equipment with stable operation in even more severe environments, so we decided to improve the humidity resistance performance of our conductive polymer capacitors.

The new PXT series improves our 1000 hour guarantee at 60°C, 95% RH to a 1000 hour guarantee at 85°C, 85% RH.

This series will be suggested for use in telecommunications equipment, such as that used at telecommunications base stations that will be used in severe environments, and industrial equipment.

### <<Technological Points>>

In order to improve humidity resistance, we adopted a new electrolyte and an improved polymerization procedure for the conductive polymer, and were successful in reducing property fluctuations when moisture was adsorbed.

### <<Sample Availability and Mass Production Schedule>>

Samples: June 2015

Mass production: August 2015

### <<Production Location>>

Chemi-Con Miyagi Corporation

### <<Main Specifications>>

- Category temperature range: -55°C to 105°C
- Endurance: 3000 hours at 105°C
- Humidity resistance: 1000 hours at 85°C, 85% RH

Newly added product

Size	Rated voltage [Vdc]	Capacitance [ $\mu$ F]	Equivalent series resistance (ESR) [ $m\Omega_{max}/20^{\circ}C, 100\text{ k to } 300\text{ kHz}$ ]
$\phi 5 \times 3.9\text{ L mm}$	2.5	220	25
	4.0	150	25
	6.3	100	25
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	4.0	150	25
	6.3	100	25
	16	47	50

<<Product Appearance>>

