



# Press Release

Nippon Chemi-Con Corporation  
April 8, 2016

## **Development of Radial Lead Type Conductive Polymer Aluminum Solid Capacitors PSJ Series** First lineup of ESR 4mΩ products in the industry

Nippon Chemi-Con has added the PSJ Series with improved ESR to its radial lead type conductive polymer aluminum solid capacitors.

Conductive polymer aluminum solid capacitors NPCAP™ have ultra-low ESR characteristics and excellent noise absorption. They are used in many devices as optimum products for digital information appliances such as PCs.

The existing PSK Series has the smallest substrate mounting surface area for a radial lead type product in the NPCAP™ lineup. The ESR characteristic of products with a rated voltage of 2.5V, capacitance 560μF and case size φ5.0x8.0 Lmm is 7.0mΩ.

When compared to PSK Series products of the same size, the newly developed PSJ Series has lowered the ESR characteristic to 4.0mΩ, a drastic 40% reduction. The Series will be commercialized in the aforementioned size and size φ6.3x8.0 Lmm.

As digital devices such as PCs and servers continue to downsize and improve functions, the requirements for capacitors are also increasing. The newly developed first ESR 4.0mΩ product in the industry will be proposed for such devices.

### [Technical Features]

The development point for lower ESR is the following.

- By fundamentally reviewing all component materials including conductive polymers and specializing in lower resistance, we have achieved even lower ESR.

### [Samples and Mass Production]

Samples: available as needed

Mass production: May 2016

### [Production Site]

Chemi-Con Yonezawa Corp.

### [Main Specifications]

- Category temperature range: -55°C to +105°C
- Endurance: guarantees 2,000 to 5,000 hours at 105°C

### Newly added products

| Size<br>[mm]  | Rated voltage<br>[Vdc] | Capacitance<br>[ $\mu$ F] | Equivalent series<br>resistance (ESR)<br>[m $\Omega$ max]<br>[20°C,300kHz] |
|---------------|------------------------|---------------------------|--|
| $\phi$ 5.4x8L | 2.5                    | 390                       | 4.0  |
| $\phi$ 5.4x8L | 2.5                    | 470                       | 4.5  |
| $\phi$ 6.3x8L | 2.5                    | 560                       | 4.0  |
| $\phi$ 6.3x8L | 2.5                    | 560                       | 4.5  |

### [Product Appearance]

