nichicon

Polymer Capacitors Applications, Markets, Products

Where do I Sell Polymers?

Because of polymer capacitors' excellent features and benefits, they can be used in numerous applications, markets and products.

Applications?

Backup or secondary power source: In this scenario, the capacitor is working like a battery. For example, a computer is in sleeping mode and to wake up, the CPU needs power rapidly. However, the power supply cannot support that quick energy requirement so the charged capacitors provide the quick energy the power supply cannot. The features of low ESR and low ESL enable this benefit.

Bypass and decoupling: Polymer capacitors can take out noise (i.e. noise absorption) from the power source to the IC (e.g. bypass) and from the IC to the power source (e.g. decoupling).

Filtering: Polymer capacitors are excellent choices for filtering because of their high capacitance, good temperature characteristics , low ESR and long-life. They are used for primary and secondary filtering for DC-DC converter and secondary filtering for switching power supply applications.

Smoothing: Due to exceptional low ESR characteristics, polymer capacitors make excellent choices for smoothing out ripple voltage on both the input and outside side of the circuit. In some cases, downsizing can be realized because less capacitors are required.

Markets?

***Industrial * Lighting * Alternative Energy *Telecommunications * Wireless ***
***Automotive * Computer ***

Products?

***DC-DC Converter * LED Backlight * AC-DC Power Supply for Personal Computer ***
***Cellular Phone * Modems * Smart Meter * Motherboards * Graphic Cards ***

Polymer Thrust Program (PTP)