

Welcome to **Rubycon...**

Paving the pursuit of supreme quality, innovative ideas, with a continual challenge for state-of-the-art technologies... This is our quest.

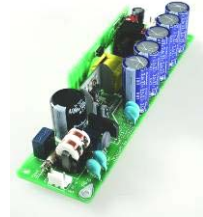
We have lined up over 3,000 items covering a wide range of applications including consumer, industrial, power, lighting and automotive.

Products that have enjoyed an excellent reputation of high performance and reliability for extreme conditions with continual advancement in miniaturization, high temperature operation, ultra low impedance and long life sustainability.

Aluminum electrolytic capacitors, made by Rubycon, are considered the benchmark in the industry with over 50 years of product know-how and experience.

To meet the continuing demand for today's electronic designs, Rubycon would like to introduce innovative new capacitor technologies including "PML", "POLYMER MULTI-LAYER", "PC-Con" CONDUCTIVE SOLID POLYMER ALUMINUM, and "EDLC" ELECTRIC DOUBLE LAYER CAPACITORS. They are designed with superior performance far beyond conventional capacitor technologies.

DCH-20
Power Supply
20 Second Hold Up



ZL/ZLH
Ultra Low Impedance
Aluminum Electrolytic
Capacitors

PC-Con Series
Solid Polymer
Aluminum Electrolytic
Low ESR / High Ripple



PML-Cap's contain an innovative patented design which is unique to current capacitor technologies. With a traditional Multi Layer Ceramic Capacitor, around 100 Layers are common, PML-Cap's use up to 6000 layers which allow for ultimate design performance and reliability.

PML-Cap's have stable and excellent characteristics across a broad temperature range from -55 to 125°C by employing an ultra thin polymer of less than 1 micron thick. PML-Cap's achieve a high degree of miniaturization, with weight of approximately ¼ that of multi-layer ceramics. High wave distortion characteristics make the PML-Cap ideal for audio applications that demand the best sound and pure tone quality. A state-of-the-art manufacturing process is utilized for this truly unique capacitor. Currently there are 6 series offered with JIS sizes ranging from 32 16 to 82 71 or 12 06 to 32 28 EIA size codes. Audio applications, DC-DC converter, voltage regulation modules, bypass and vehicle control circuits are only some of the potential applications.

PML-Cap's will fully demonstrate its outstanding performance in a number of examples. A small capacitance change over a wide temperature range is the result of a superior dielectric, no characteristic change due to piezo electric effect and no output reduction when an increased DC voltage is applied. PML-Cap's have superior noise characteristics compared to MLCC because of their drastically reduced circuit buzz.

They are also suitable for LCD TV's, Laptop, PC's and many other digital equipment. You can see that the third harmonic distortion of PML-Cap's is quite small. A fine and clear sound created by PML-Cap's will be enjoyed in high grade audio circuit applications. They also deliver outstanding frequency characteristics and heat resistance while maintaining high reliability. PML-Cap's will open a new chapter in the advancement in the electronic age.

The next new technology is our EDLC. They are commonly referred to as Super Capacitors with very high energy storage. They use an electric double layer created in an active carbon with large surface area along with an electrolyte interface. Since

EDLC have a higher capacitance than a traditional capacitor, they are far superior to a secondary battery for rapid charge and discharge life cycle. This technology has a high expectation to replace secondary batteries or act as an assist. EDLC are attracting attention as an eco-friendly device because it does not employ hazardous materials including heavy metals or lead. We have prepared 5 series which are tailored to customer needs, such as our radial leaded DMA, DMB types, DSA, DSB, screw terminal types and module assemblies. Applications include; charge of solar energy, reduction of load fluctuation in a secondary battery, regeneration device for large industrial machines, and buffer function for natural energy generation. Rubycon EDLC has a wider temperature range between -25 to 60 deg C, versus a secondary battery. Its cycle life will reach 10,000 times with stable characteristics. Rubycon EDLC's contain higher energy density and reliability as the top of its class in the industry. We will continue to develop and expand our offerings as a New Clean Energy device.

PC-CON with our advanced technology contain aluminum based Solid Polymers. They have a unique internal construction employing oxide aluminum as the dielectric and conductive solid electrodes as the electrolyte. PC-CON also contain a unique connection of gold wire bonding for the anode terminal and through hole connection in the cathode terminal. Our "SLE" series have an improved ESR from the conventional low profile type "SL" series, "SXE" series with improved ESR by 30% from the current "SXB" series and "SW" series with lower ESR and higher capacitance round out our series line up. PC-CON will meet several applications such as Back-up circuit for power supplies, smoothing circuit for Auto-infotainment, audio/video devices and industrial equipment. By employing solid electrode with excellent conductivity and lead wire with lower resistance, PC-CON has achieved lower ESR and impedance. Its stable temperature characteristic show minimal change of capacitance and ESR across the temperature range. Our road map includes further development not only ultra-low ESR and higher capacitance but also lower ESL. Safe, open-mode failure and higher withstanding voltage are part of its unique construction. We believe our PC-CON and our other capacitor technologies will serve as a key ingredient for your circuit design in the next digital age.