Aluminum Electrolytic Capacitor

The top temperature for all but a few aluminum electrolytic capacitor types is only 85 &#176C or 105 &#176C or less because higher temperatures require seals capable of withstanding high-pressure and exceed the stability limits of affordable electrolyte systems. However, with the new demands for 125 &#176C rated capacitors for automotive applications and for long-life and military switching-power applications, Cornell Dubilier has developed and announces immediate availability of Type 325 rated for operation from -55 &#176C to 125 &#176C. This new type has exceptionally low ESRs of little as 5 milliohms making it especially suited as an output capacitor in a switching power supply or as a battery-stiffening capacitor in an UPS system. It is similar to United Chemicon's U767D Series except with somewhat more capacitance.

Type 325 has a voltage range from 6.3 to 35 Vdc and in capacitance values from 880 to 46,000 &#956F -10, +100%. Available in the same cases as the firm's Type 300 and 301 capacitors, diameters are 3/4, 7/8 and 1 inch and lengths are from 11/8 to 35/8 inches. Two and three lead configurations are available. Ripple current capability is from 5.6 to 26.7 amps at 20 kHz and 85 &#176C. The rated life test is 8000 hours at 105 &#176C and 2000 hours at 125 &#176C.