

### **Type RA, Stacked Polyester Capacitors Deliver High Energy Density**

[Cornell Dubilier's](#) Type RA multilayered film capacitors for 125 °C operation are constructed using stacked metallized polyester protected with an impregnated sealant, which eliminates the need for an external case. According to the vendor, this package style offers the highest energy density technology available for switching power supplies, dc-dc converters and other high ripple current applications (see the figure).

Type RA capacitors are impregnated with a microcrystalline polymer sealant and exterior tape wrap that protects the capacitor element from moisture, allowing it meet 85°C/85% RH requirements for demanding applications in military vehicles and aerospace. Available in capacitance values ranging from 0.1  $\mu\text{F}$  to 10.0  $\mu\text{F}$ , voltage ratings of 100, 250, 400 and 500 Vdc, type RA capacitors are terminated with radial leads to cover a broad range of applications in power electronics where high-density capacitors are needed for dc filtering.

These capacitors are available through the company's key franchised distributor sites for quick turnaround on prototype and preproduction quantities. For more information, see <http://www.cde.com/resources/catalogs/RA.pdf>.



*Figure. Type RA capacitors are constructed using stacked metallized polyester protected with an impregnated sealant, which eliminates the need for an external case and leads to high energy density. Available in capacitance values ranging from 0.1  $\mu\text{F}$  to 10.0  $\mu\text{F}$ , voltage ratings of 100, 250, 400 and 500 Vdc, these capacitors cover a broad range of applications in power electronics.*