

Electronic Products Division

Santa Maria, California

High Voltage Mica Filter Capacitors



Reynolds Electronic Products Division manufactures ceramic-to-metal sealed gas tubes (spark gaps), transient protection systems, high voltage mica capacitors and voltage multipliers.

The high voltage filter capacitor module shown to the left, represents the state of the art in the packaging of high voltage capacitors for military applications.

The module, which is near monolithic, is replaceable by unmating the six high voltage lead assemblies and the mounting bolts on the base of the unit. Turret lugs and seven imbedded screw inserts allow the user to attach critical components to the exterior of the module for more efficient cooling and replacement.

The module contains 12 mica capacitor sections wound on Reynolds multi-spindle precision capacitor roll winding machines. Each of the sections are “burned in” to a rigorous specification developed jointly by Reynolds and the customer.

Reynolds designed and packaged this unique capacitor module based on our customer’s requirements.

In many situations, the use of voltage multipliers is the only realistic way to produce high voltages. Reynolds Electronic Products Division manufactures a family of voltage multipliers with output voltages ranging from 2.5 KVDC to the 160 KVDC X-Ray equipment shown on the right.

Our voltage multipliers use only reconstituted mica as the dielectric. Mica, with a temperature capability of -55°C to +125°C with no derating, surpasses all competing technologies.

Micapliers are used in a wide range of military and commercial applications. Typical applications are: CRT anode and focus supplies for airborne Electronic Flight Instrumentation Systems (EFIS), X-ray equipment, battle tank missile targeting systems and various ground missile launch systems.

Reynolds designs voltage multipliers around the customers electrical and me-chanical requirements, constructs breadboard models for electrical testing and packages the design to the customers specification.

‘Micaplier’ Voltage Multipliers

