

Custom & Pulse Power Capacitors



Aerovox has a long history in the pulse power area where different capacitor technologies are needed to satisfy the stringent requirements for pulsing applications. Aerovox offers aluminum foil, paper and polypropylene capacitor construction as well as single sided metallized polypropylene for use in pulse forming and DC filtering applications.

Applications

- Utility UPS
- Magnetic Forming
- Lasers
- Pulsed Lasers
- DC Filters
- Defibrillators
- X-ray
- Particle Accelerators
- MARX Banks
- Strobe Lights



Typical Specifications

Aerovox Type	Type N	Type S	Type Z	Type Q
Electrodes	Aluminum Foil	Aluminum Foil	Single Side	Single Side
Dielectric	Paper & Polypropylene	Paper & Polypropylene	Polypropylene	Polypropylene
Impregnated	Yes	Yes	Yes	Yes
Dry*	No	No	Yes	Yes
Capacitance Range	0.1 μ F to 1000 μ F	0.2 μ F to 1000 μ F	45 μ F to 1,600 μ F	10 to 5,000 μ F
Voltage Levels	3 to 60 kV	7.5 to 60 kV	.5 to 1.5 kV	.5 to 1.5 kV
Peak Current Levels	150 kA	N/A	.5 to 1.5 kA	.5 to 3 kA
Pulse Life - Nominal	250 K to 10 MM	N/A	100 million	250 thousand
Rep Rate	30 / minute	N/A	120 per minute	2 per minute
Reversal	20%	N/A	20%	20%
DC Life (Hours)	300 Hours	20,000 Hours	N/A	N/A
DF% @ 120 Hz	0.30%	0.50%	0.10%	0.60%
Energy Density (J/gm)	0.04 to 0.17	0.12	0.11	1.0
Energy Density (J/cc)	0.07 to 0.27	0.17	0.12	1.1
Package				
Round	No	No	Yes	Yes
Oval	No	No	Yes	Yes
Rectangular	Yes	Yes	Yes	Yes
Function	Pulse Forming & DC Filtering			