

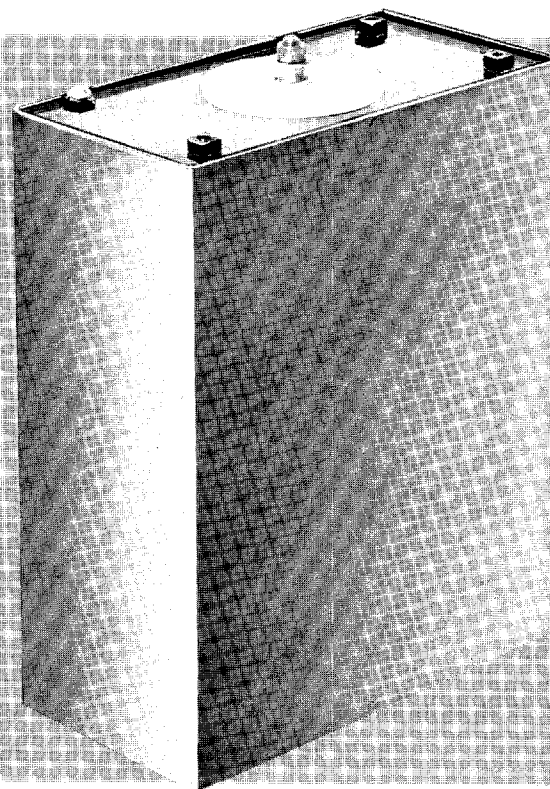
Aerovox[®] Inc.

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**LIGHT DUTY -
HIGH DENSITY
CAPACITORS
TYPE SX**

- **HIGH ENERGY DENSITY**
- **LONG LIFE EXPECTANCY**
- **LIGHT DUTY**



LIGHT DUTY - HIGH DENSITY ENERGY DISCHARGE CAPACITORS

Aerovox is recognized as being the leader in the development of high energy density capacitors. The many years of capacitor manufacturing experience and the recent EPA ban on the use of PCB fluids challenged the chemists and engineers at Aerovox to develop an alternative capacitor impregnant that was equal to or better than the previously used PCB's.

The successful accomplishment of over 4 years of research is demonstrated in this product line of HIGH DENSITY capacitors for light-duty energy discharge applications. Capacitor technology now employs a paper-polypropylene dielectric impregnated in DOP (dioctyl phthalate ester) with additives trademarked Environol. This new impregnant has a higher dielectric constant, lower cost than castor oil and improves the corona onset voltage which yields a greater life expectancy and reliability. This results in a smaller volume for energy storage at a lower cost per joule.

Aerovox has successfully manufactured the highest energy density capacitor which meets the demanding reliability and life requirements for Laser research programs.

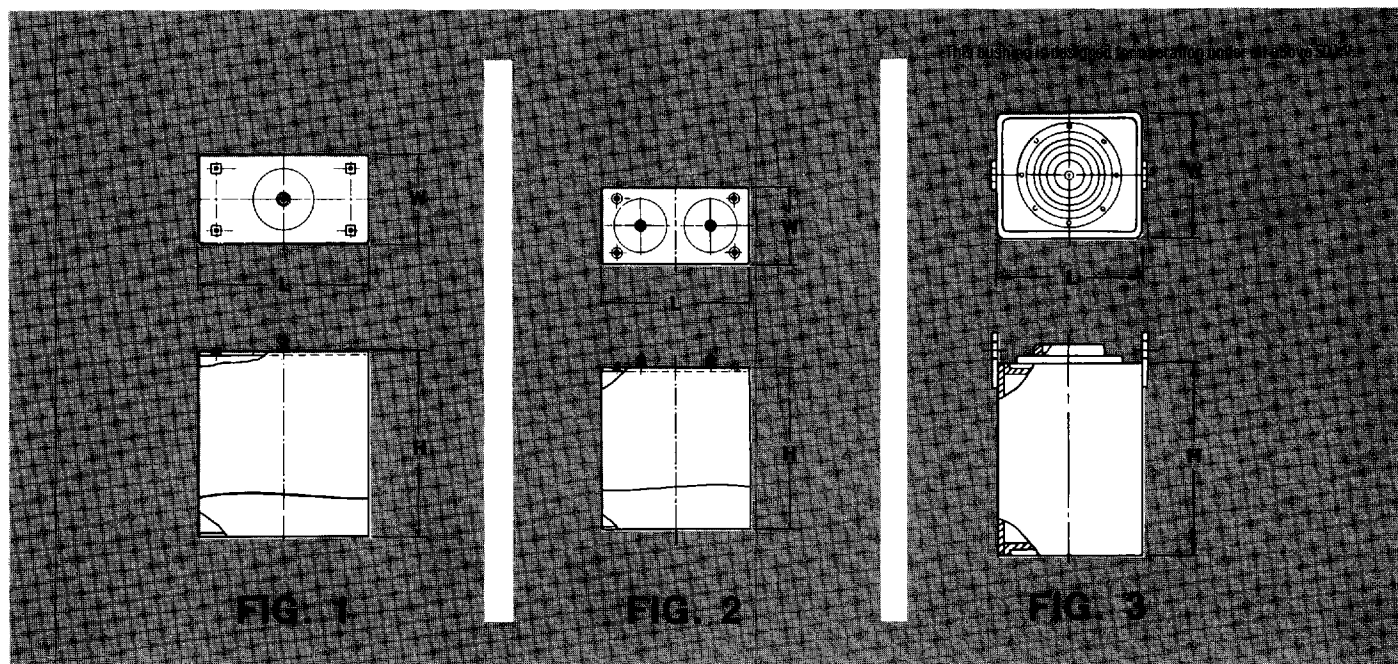
Life expectancy greater than 250,000 discharges with energy densities greater than 4 joules per inch³ are the result of improvements in the quality of raw materials and the technological innovations in the manufacturing process.

Aerovox also offers this line of HIGH DENSITY - Energy Discharge Capacitors for light duty application. Additional custom ratings at comparable low costs per joule are readily available to meet your specific requirements.

A-05-15-07

TYPICAL PERFORMANCE CHARACTERISTICS

Life Expectancy	greater than 250,000 discharges
Voltage Reversal	20%
Peak Current	20-40 kA
Voltage Range	10 kV to 60 kV
Energy Density	4 joules/in ³
Energy Range	to 12.5 kJ



TYPICAL RATINGS

Part No.	Rating			Case Size (Inches)			Approx. Weight Lbs.	Figure
	μ F	KVDC	Joules	L	W	H		
SX20E10	100	10	5	14	7¼	13½	50	1
SX20E11	150	10	7.5	14	7¼	18	80	1
SX20E12	200	10	10	14	7¼	22	140	1
SX20E13	250	10	12.5	14	7¼	26½	140	1
SX40E40	25	20	5	14	7¼	14½	60	1
SX40E41	37.5	20	7.5	14	7¼	19	80	1
SX40E34	50	20	10	14	7¼	23½	140	1
SX50E5	16	25	5	14	7¼	15	80	2
SX50E6	32	25	10	14	7¼	24	140	2
SX50E7	40	25	12.5	14	8¼	25½	160	2
SX100E15	4.0	50	5	14	11	16	175	3
SX100E16	8.0	50	10	14	11	22	220	3
SX100E17	10.0	50	12.5	14	11	25	220	3
SX125E8	4.17	60	7.5	14	11	20	200	3
SX125E9	5.56	60	10	14	11	23	220	3
SX125E11	6.5	60	11.7	14	11	25	220	3