

AVX
Discharge Capacitors

http://www.kttic.com





In 1979, Thomson Passive Components (acquired by the AVX Corporation in 1998) developed the **CONTROLLED SELF-HEALING technology** for medium power dry filtering capacitors.

In 1988, AVX started the development of **CONTROLLED SELF-HEAL-ING technology** for impregnated DC filtering capacitors (TRAFIM series). This product range is very popular and has been licensed by other manufacturers.

Improvements of film technology and its metallization the last 10 years have led to a significant increase of the energy density available in AVX's TRAFIM series. In fact, it is now considered one of the most compact capacitors on the market.

Today AVX offers impregnated capacitors based on the same controlled self-healing technology, which are ideal for discharge applications. The voltages of these DISFIM capacitors range from 2kV to 75kV. The maximum available energy per can is 150kJ.

In the past, discharge capacitors have used foil electrodes. Any defect of weak point in the film led to a catastrophic failure of the capacitor involving a short-circuit with even a risk of explosion.

Now, with the controlled self-healing technology, the capacitance of the DISFIM is divided into several million elementary capacitances. The weak points in the dielectric are insulated and the capacitor continues to work without any short-circuit or risk of explosion. DISFIM capacitors may represent more than 10,000 square meters. Only some square millimeters of active surface are lost for every self-healing action. Over the life of the capacitor, the capacitance gradually decreases. The capacitor is usually designed to lose less than 5% of its initial capacitance during its whole lifetime.

NOTICE: Specifications are subject to change without notice. Contact your nearest AVX Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all applications.

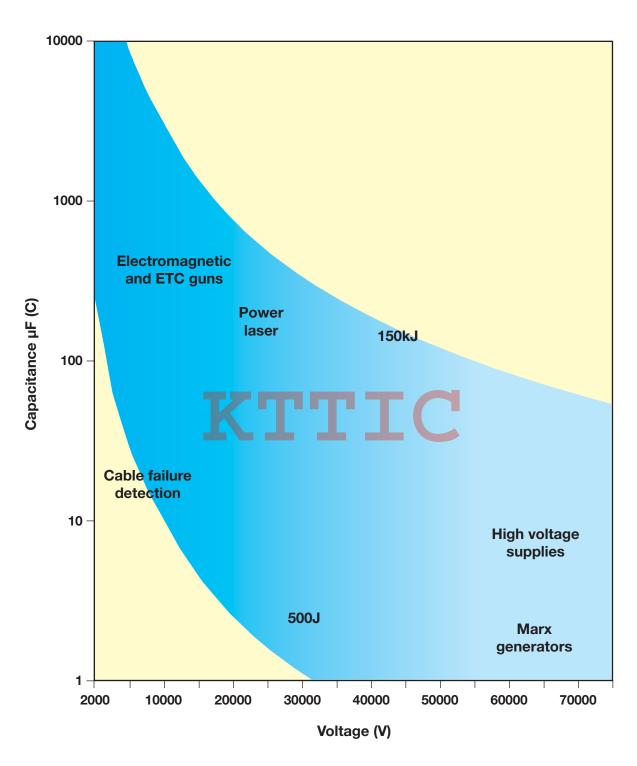
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DISFIM RANGE



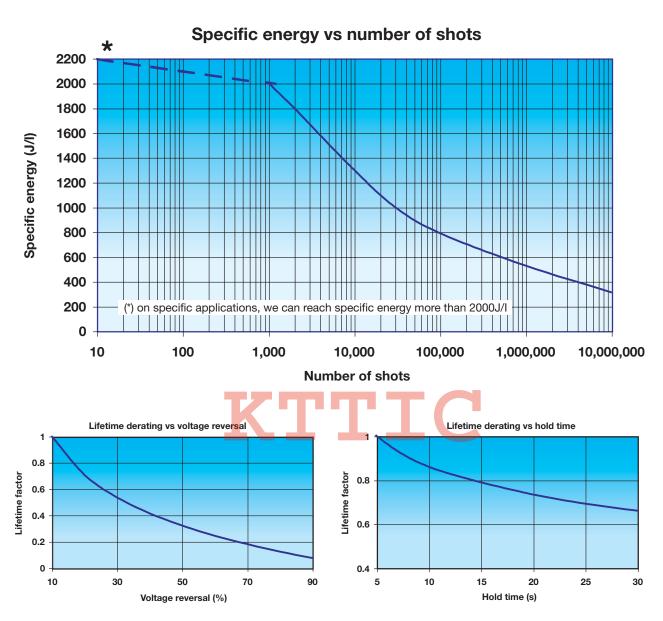
Tolerance on capacitance: ±10%, ±5%, ±2% Stray inductance: 50nH to 500nH

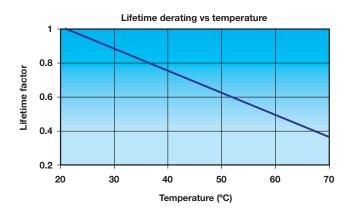






SPECIFIC ENERGY CALCULATION







KTTI OISTIM PROBLETES.com



This questionnaire lists the information we require to prepare an offer according to your exact requirements.

Name:	Fu	unction:		
Company:		elephone:		
Address:		ax:		
	Er	mail:		
Expected dimensions: Width (mm): Length (mm): Height (mm):	Capacitance/Tolerance)	μF	%
	Charging Voltage		V	
	Capacitance Time		S	
	Hold Time		S	
	1.0.0 1.11.10			
Expected stray inductance:			Normal Conditions	Faulty Conditions
	Expected lifetime	hours		
		or shots		
Number of terminals:	De als assessed	(4)		
	Peak current	(A)		
	Aperiodic dischar	_		
Capacitor operating position:	Pulse duration (5%			
upright horizontal tilted upside down	Time to I peak	(µs)		
	Oscillatory discha	ırge		
	Reversal voltage	(%)		
Environment:	Ringing frequency	(Hz)		
(moisture, vibrations)				
Waveforms (U/I)	Repetition Rate Single shots		T	
, ,	(shot/min hour da	ay)		
			•	
	Burst			
	Impulses per burst			
	Impulse rep. Rate	(Hz)		
	Burst rep. Rate (burst/s min hour	r 1		
	(Duist/s IIIIII IIIIII)		
	Operating temperature	from	to	°C
	Storage temperature	from	to	°C
	Storage temperature	110111	to	
	Cooling conditions			
	Natural convectio	n		m /-
	Force air Oil			m/s
Remarks:				

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