



執行國際標準	IEC 61071
幹式/油式結構	Dry/Oil type available
高的過電壓	High over-voltage
低 ESL	Low ESL
低 ESR	Low ESR
高峰值電流	Heavy peak current
金屬/絕緣外殼	Metal/Insulated case
自癒合技術	Controlled self-healing technology
金屬化結構/箔式結構	Metalized film(MKMJ)/Foil film type(MAM)

Capacitors design and manufacture energy storage capacitors that are not limited to a catalogue range. Current, voltage, size, mass and terminations are matched to the customer's requirement and application, a few of which are listed below.

Shot life and high reliability is achieved using ultra low defect density, high isotactic, Metallized polypropylene dielectric film incorporating an extended working temperature range and controlled self-healing capability. Elements are wound on the latest precision edge controlled automatic winding machines. High conductivity copper is used for low resistance internal connections. Capacitors are finished in powder coated corrosion free metal or insulated cases and filled with an environmentally safe oil or dry leak free resin.

該款高比能脈衝電容器不局限於所列出的電壓、電流、尺寸等參數，我們可以根據您實際的應用條件和環境進行設計。脈衝次數以及其高可靠性來自我們所擁有的核心技術，不局限於薄膜、鍍膜、設備、製造工藝等。嚴重建議您在選擇產品的時候與我們取得聯繫，以便我們給出您最合適的方案。

## ELECTRICAL CHARACTERISTICS

容量範圍	Capacitance Range	10 $\mu$ F ~ 50,000 $\mu$ F
使用溫度	Operating Temperature	-40°C ~ +70°C
容量偏差	Capacitance Tolerance	±5%(J);±10%(K)
額定電壓	Rated Voltage	3,000 ~ 100,000V.DC
耐電壓	Test Voltage between Terminal	1.1~1.5Un 2s
極殼耐壓	Test Voltage between Terminal/Case	2Un,1min
絕緣電阻	Insulation Resistance	R*C≥7500MΩ· $\mu$ F
海拔	Max.Altitude	< 2000m
阻燃性	Flame Resistance	UL 94V-0
能量	Energy	100-100,000J
預期壽命	Lifetime Expectancy	≥50,000Hours (Un≤70°C) Or 1000~10 <sup>9</sup> shots

## TYPICAL APPLICATION

Used in Military, Medical and Industrial applications.

- Oceanography (Subsea Surveys, Sparkers, Boomers)
- Power Electronics (Welding, Forming, Magnetizers, Demagnetizers, PFN's)
- Research (Particle Accelerators 'LHC, ISIS', Lasers)
- Testing (Lightning Simulation, High Voltage Capacitor Banks)
- Defence (Range Finders, Railguns, Radar, Missile Systems, EMP)
- Food Industry (UV Sterilisation)

應用於:

軍工 / 醫療設備 / 工業領域 / 海洋探測 / 粒子加速 / 雷電模擬器 / 脈衝發生器 / 磁化設備 / 電磁炮 / 軌道炮 / 脈衝形成電路 / 勘測設備 / 焊接 / 點火設備 等高壓脈衝與儲能應用。

## COMMON DESIGN (mm)

Cap ( $\mu\text{F}$ )	Voltage (KV)	Energy (KJ)	Peak current (KA)	RMS current (A)	Inductance (nH)	Voltage reverse (%)	Design life	Energy density ( $\text{J}/\text{cm}^3$ )	Size(mm)		
									L	W	H
10,000	3	45	75	180	120	10	$\geq 20,000$	1.2	340	260	420
10,000	3	45	75	180	120	10	$\geq 2,000$	2.0	340	165	400
4,000	5	50	60	140	120	10	$\geq 20,000$	1.2	340	260	470
4,000	5	50	60	140	120	10	$\geq 2,000$	2.0	340	165	445
500	10	45	35	90	150	10	$\geq 3,000$	1.8	340	170	430
500	10	45	35	90	150	10	$\geq 20,000$	1.2	340	260	420
500	10	25	100	120	40	10	$\geq 40,000$	0.37	280	356	674
500	10	25	50	120	155	20	$\geq 50,000$	0.6	340	220	550
4,000	10	200	250	260	140	10	$\geq 2,000$	2.0	320	320	975
400	15	45	35	90	150	10	$\geq 20,000$	1.2	340	260	420
400	15	45	35	90	150	10	$\geq 2,000$	1.8	340	170	430
30	20	20	50	120	45	80	$\geq 100,000$	0.43	613	356	213
50	20	10	50	100	60	10	$\geq 200,000$	0.24	625	356	185
200	20	40	25	60	160	10	$\geq 4,000$	1.6	320	320	245
200	20	40	40	110	160	20	$\geq 50,000$	0.6	390	220	775
400	20	80	50	110	160	10	$\geq 4,000$	1.6	320	320	485
400	20	80	50	110	160	10	$\geq 20,000$	1.2	340	260	750
400	20	80	80	175	150	20	$\geq 50,000$	0.6	570	260	900
300	25	94	45	100	180	10	$\geq 4,000$	1.6	390	170	880
300	25	100	45	100	180	10	$\geq 20,000$	1.2	390	260	820
300	25	94	80	180	150	20	$\geq 50,000$	0.6	570	220	1050
12.5	40	10	180	100	40	60	$\geq 25,000$	0.15	686	356	280
32	40	25	50	100	75	10	$\geq 40,000$	0.37	686	356	280
8.4	60	15	200	110	40	40	$\geq 10,000$	0.21	711	356	280
1.2	100	6.5	150	100	40	30	$\geq 35,000$	0.1	635	356	280
3.0	100	15	260	110	40	20	$\geq 10,000$	0.24	635	356	280

注:以上參數僅供參考,嚴重建議您與我們取得聯繫來選擇最優方案。

Applications and characteristics are for guidance only. Please contact us to discuss our full design capability.

\*The voltage lower than 45KV were tested in lab air at sea level, Over 45KV probably were tested under oil.

HV dangers, please inquiry us for correct application.

\*低於 45KV 的電容器在海平面試驗室環境中測試, 超過 45KV 時部分產品可能只適用於絕緣油中。

請諮詢我們的工作人員獲取合適且更安全的使用建議。