

超高压金属化膜电容器

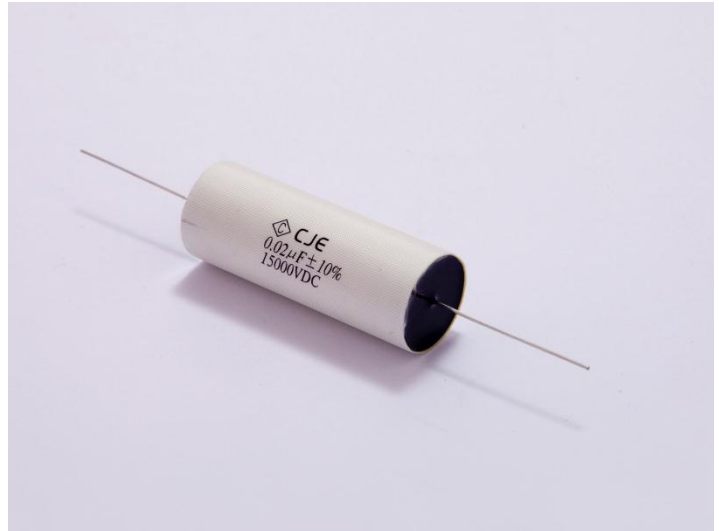
Super-High-Voltage Metallized Film Capacitors

应用

- 高端医疗设备用超高压电源；
- 高压变频器；
- 高压输变电线路的高压耦合和载波通信信号耦合；
- 大型机电设备保护设施和安全监测设备。

Applications

- Super-High-Voltage power supply of high top medical treatment equipment.
- High voltage converter.
- High voltage coupling and carrier wave communication signal coupling in high voltage transmission line.
- Protection facilities of large-scale machine and safety measurement apparatus.



● 产品描述

- 执行标准 GB/T 2693 idt IEC 60384-1；
- 金属化聚丙烯/聚酯膜无感卷绕而成；
- 聚酯胶带或特种胶带包裹，两端阻燃环氧树脂封装；
- 具有良好的自愈特性和温度稳定性；
- 干式结构，确保安全使用；
- 可根据客户要求，提供镀锡铜线、铜焊片、铜螺母和铜螺栓等多种引出形式。

● 工艺特点

- 采用特种胶带可防止高压设备内绝缘填充料出现裂缝，避免沿裂缝处产生爬电现象；
- 产品的设计可保证在交流和高压脉冲应用场合下电容器内部不产生离子电流；
- 可提供更小型化的产品

● Description of Products

- Reference standard: GB/T 2693 idt IEC 60384-1.
- Metallized polypropylene/polyester film wound, non-inductive construction.
- The polyester tape or specific tape wrap and epoxy resin end filled.
- Excellent self-healing property and temperature stability.
- Dry construction assuring safety use.
- Terminals including tinned copper wire, copper solder tags, copper screw, copper nut and others are available on request.

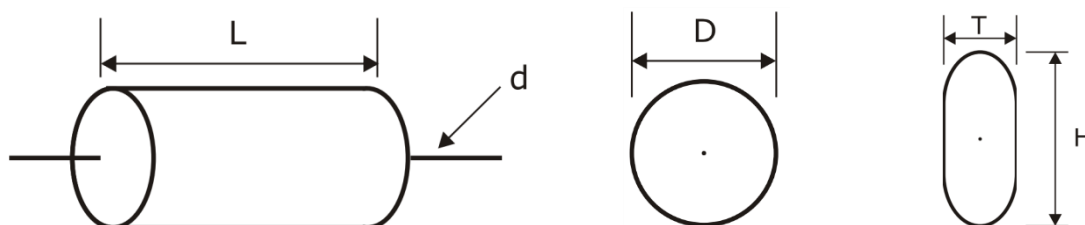
● Technology Features

- To adopt special tape to prevent insulation materials filled in high voltage devices from appearing crack, to avoid producing creepage appearance along with the crack.
- Design of product can assure that there are not ion current inside capacitor under AC and high voltage pulse application.
- More miniature size product available on request.

● 性能指标 Specifications

温度范围 (与工作电流有关) Temperature Range	-40 ~ +85°C (Relating to operating current)
电容量范围 (可根据客户要求定制) Capacitance Range	160pF~20μF (Others made to order available)
电容量偏差 ΔC/C Capacitance Tolerance ΔC/C	J: ±5% K: ±10%
额定工作电压 U_n (可根据客户要求定制) Rated Voltage U_n	3k~30kVdc/1k~10kVac (Others made to order available)
端子间电压 U_{TT} Voltage Proof Between Terminals U_{TT}	1.4 U_n (60s)

● 外形尺寸 Dimensions



● 代表规格 (圆形) Representative Specifications (Tubular shape)

◆ Miniature HVB series

U_n	Part Number	C_R	D	L	d	dv/dt	lpp
		(μF)	(mm)	(mm)	(mm)	V/μs	(A)
10kV	HVB 10kV 105	1.0	68	90	1.2	900	900
15kV	HVB 15kV 103	0.01	13	71	1.0	2000	20
	HVB 15kV 503	0.05	26	71	1.0	2000	100
	HVB 15kV 104	0.1	36	71	1.0	2000	200
	HVB 15kV 105	1.0	88	146	/	1550	1550
	HVB 15kV 205	2.0	123	146	/	1550	3100
20kV	HVB 20kV 103	0.01	16	100	0.8	3200	32
	HVB 20kV 203	0.02	22	100	1.0	3200	64
	HVB 20kV 503	0.05	32	100	1.2	3200	160
	HVB 20kV 104	0.1	43	100	1.2	3200	320
	HVB 20kV 105	1.0	96	168	/	1800	1800

● 代表规格（圆形） Representative Specifications (Tubular shape)

◆ HVE series

U _n	Part Number	C _R	D	L	d	dv/dt	I _{pp}
		(μF)	(mm)	(mm)	(mm)	V/μs	(A)
4kVdc	HVE 4kV 103	0.01	12	30	0.8	2500	25
	HVE 4kV 104	0.10	20	47	0.8	1000	100
	HVE 4kV 224	0.22	28	47	0.8	1000	220
6kVdc	HVE 6kV 103	0.01	14	39	0.8	4000	400
	HVE 6kV 473	0.047	17	60	0.8	1600	75.2
	HVE 6kV 104	0.1	24	66	0.8	1500	150
8kVdc	HVE 8kV 222	0.0022	9	48	0.8	4000	8.8
	HVE 8kV 103	0.01	16	48	0.8	5000	50
	HVE 8kV 683	0.068	26	80	0.8	3200	217.6
10kVdc	HVE 10kV 102	0.001	10	56	0.8	12600	12.6
	HVE 10kV 103	0.01	16	60	0.8	5600	56
	HVE 10kV 473	0.047	26	90	0.8	3000	141
12kVdc	HVE 12kV 102	0.001	10	56	0.6	7200	7.2
	HVE 12kV 223	0.022	25	71	0.8	3300	72.6
15kVdc	HVE 15kV 471	0.00047	10	56	0.8	20000	9.4
	HVE 15kV 102	0.001	11	64	0.8	15000	15
	HVE 15kV 103	0.01	26	71	1	8000	80

● 代表规格（圆形） Representative Specifications (Tubular shape)

◆ HVB series

U _n	Part Number	C _R	D	L	d	dv/dt	I _{pp}
		(μF)	(mm)	(mm)	(mm)	V/μs	(A)
4kVdc	HVB 4kV 105	1.0	45	90	1.2	600	600
	HVB 4kV 106	10	95	168	/	250	2500
	HVB 4kV 206	20	135	168	/	250	5000
6kVdc	HVB 6kV 103	0.01	14	41	0.8	5500	55
	HVB 6kV 474	0.47	42	85	1.2	1200	564
	HVB 6kV 105	1.0	45	116	1.2	500	500
8kVdc	HVB 8kV 103	0.01	17	48	0.8	3600	36
	HVB 8kV 105	1.0	64	136	/	1300	1300
	HVB 8kV 305	3.0	89	160	/	1000	3000
10kVdc	HVB 10kV 103	0.01	19	47	0.8	10000	100
	HVB 10kV 104	0.1	38	71	1.2	5600	560
	HVB 10kV 105	1.0	78	146	/	2000	2000
15kVdc	HVB 15kV 103	0.01	22	71	0.8	12000	120
	HVB 15kV 203	0.02	30	71	1	12000	240
	HVB 15kV 104	0.1	42	118	1.2	3500	350
	HVB 15kV 224	0.22	56	142	/	4800	1056
	HVB 15kV 105	1.0	115	142	/	4800	4800
20kVdc	HVB 20kV 103	0.01	25	105	1	15000	150
	HVB 20kV 104	0.1	52	150	/	4500	450
30kVdc	HVB 30kV 161	0.00016	13	120	0.6	50000	8
	HVB 30kV 112	0.0011	16	120	0.8	50000	55
	HVB 30kV 123	0.012	38	120	1.2	25000	300
	HVB 30kV 104	0.1	55	168	/	5000	500

U _n	Part Number	C _R	D	L	d	dv/dt	I _{pp}
		(μF)	(mm)	(mm)	(mm)	V/μs	(A)
4.7kVac	HVB 4.7kVac 183	0.018	35	112	1.0	15000	270
	HVB 4.7kVac 703	0.07	45	112	1.2	12000	840
6kVac	HVB 6kVac 604	0.6	135	168	/	10000	6000

● 代表规格（扁形） Representative Specifications (Flat shape)

◆ HVB series

U _n	Part Number	C _R	W	H	T	d	dv/dt	I _{pp}
		(μF)	(mm)	(mm)	(mm)	(mm)	V/μs	(A)
9kVdc	HVB 9kVdc 404	0.04	71	28	15	1.0	2000	80
10kVdc	HVB 10kVdc 404	0.04	71	29	16	1.0	2200	88

备注：可根据客户需求，提供定制产品。Special design available to meet your requirements.