



Xian Xiwuer Electronic & Info. Co., Ltd. is a wholly state-owned company with a registered capital of 91.46million RMB Yuan, located in Xi'an city, Shaanxi, China, covering an area of 4000m², with employees of 457, and about 180 technicians, among them, there are 135 engineers, 21 senior engineers. The company has total assets of 315 million RMB Yuan, fixed assets of 137 million RMB Yuan, which is a large enterprise mainly engaged in producing electronic components. The company has been titled as Advanced Enterprise by Xian Municipal Government and Shaanxi provincial Government for many times, also has been titled as the Quality Beneficiary Type Advanced Enterprise of China etc.

There are four production sites in Xi'an- No.1118 E. Ziqiang Rd., Jingyang Base, No.99 Fengqing Rd., and Block A, No. 18 Gaoxin, covering an area of 36,000 square meters and 70,000 square meters for construction area. Major production equipment are up to the world's top level and imported from the United States, Japan, Germany, Belgium, Taiwan, etc.

High voltage ceramic capacitor is a subsidiary of Xi'an Xiwuer Electronic & Info. Co., Ltd, specializing in researching ,developing and manufacturing ceramic capacitors for 40 years. Products can be widely used in power transmission and transformation, smart grid, high-voltage power supply, military research, etc.





Major products as follows:

1. 3.6kV~40.5kV ceramic capacitor for high-voltage presence indicating device.
2. Primary and secondary fusion sensor capacitor, capacitor to take power from power grid, zero sequence and phase sequence voltage divider.
3. 10kV~250kV repetition frequency, energy-storage, impulse capacitor.
4. 550kV, 750kV, 1100kV grading capacitor for lightning arrester, and grading capacitor for the breaks of circuit breaker.
5. Capacitor for high-voltage power supply: X1Y2, Y1 and so on.

The company has passed the identification of three systems-ISO9001、ISO14001、OHSAS18001, GJB and confidentiality authentication. The market has witnessed its excellent quality. Well-known Chinese and foreign enterprises and military units, including Fortune 500 company purchase our products, ABB, Schneider, Xi'an XD Switch Electric Co., Ltd., China Academy of Engineering Physics, Xuji Electric Company, Pinggao Electric, Shandong Electric Power Corporation, NARI Group. The capacitive voltage sensor was first developed by our company, and it has been sold for more than 10 years.



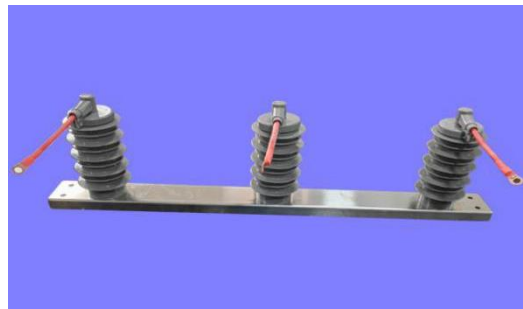
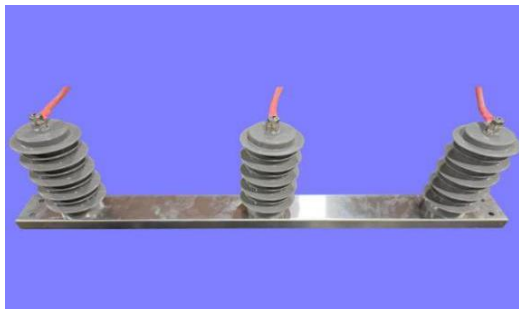
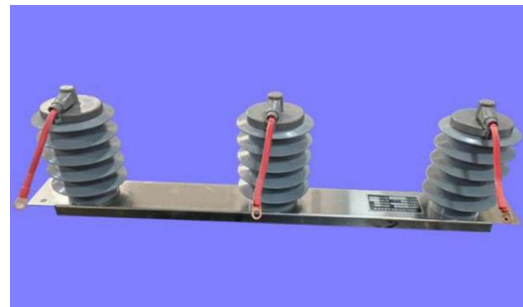


EVT-10KV-P25/P60 (Outdoor)

Electronic Type Zero-phase Integrated Voltage Instrument Transformer

Zero sequence: $10KV/\sqrt{3}$ / $(6.5V/\sqrt{3})$; Precision Grade: 1P

Phase sequence: $(10KV/\sqrt{3})/(3.25V/\sqrt{3})$ Precision Grade: 0.5P

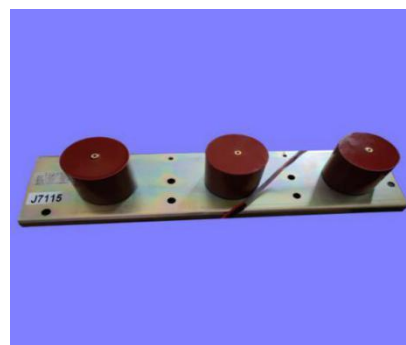
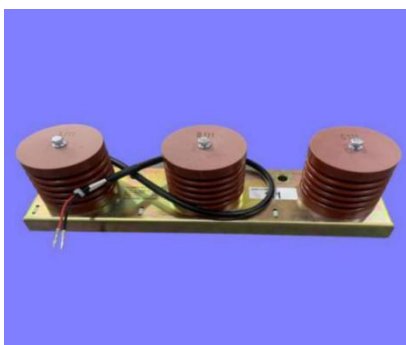


EVT-10KV-P25/P60 (Outdoor)

Electronic Type Zero-phase Integrated Voltage Instrument Transformer

Zero sequence: $10KV/\sqrt{3}$ / $(6.5V/\sqrt{3})$; Precision Grade: 1P

Phase sequence: $(10KV/\sqrt{3})/(3.25V/\sqrt{3})$ Precision Grade: 0.5P





Solid Sealed Polar Pole Vacuum Breaker

Item	Voltage Transformer	Current Sensor
Nominal Voltage Ratio	Positive Sequence: $(10KV/\sqrt{3})$ / (3.25V/3) Zero Sequence: $(10KV/\sqrt{3})$ / (6.5V/3)	Phase Sequence: 600A/1V Zero Sequence: 20A/0.2V
Technique	Capacitor sharing	LPCT
Precision Grade (including cable of 8 meters)	Phase Sequence: 0.5P Zero Sequence: 1P	Phase Sequence: 0.5S/5P10 Zero Sequence: 0.5/5P10
Ambient Temp.	-40°C~70	-40°C~70°C





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Capacitor Voltage Divider for Taking Electricity



Output Current 220VAC 27VAC 24VDC, Output Power: 6W~25W

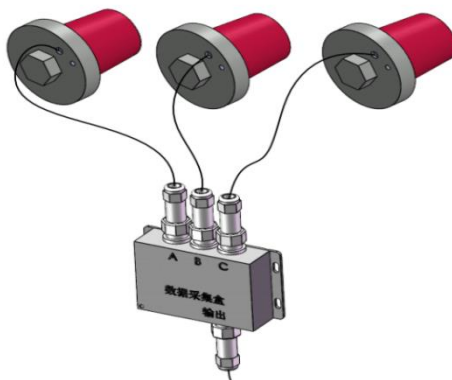
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Plug Type Zero-phase Integrated Voltage Sensor for EVY-10KV-P60/25

Phase sequence: $(10KV/\sqrt{3})/(3.25V/\sqrt{3})$; Precision Grade: 0.5P

Zero sequence: $10KV/\sqrt{3}$ / $(6.5V/\sqrt{3})$; Precision Grade: 3P



Wireless Temperature Measuring Device for the Plug of Ring Network Cabinet

Ambient Temp:-40°C-+125°C

Temp Precision:±1°C

Measuring Distance:50m

Taking Electric:By Electric Field (No Need for Batteries)

Cut in Voltage:2KV

Lighting Impulse: > 95KV

Voltage Withstanding:48KV/3min Normal

Partial Discharge:20KV, < 2PC

Wireless Communication Frequency: 433MHZ



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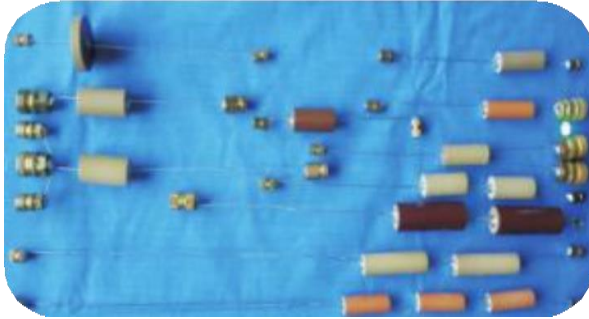
Customized Capacitors



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Capacitor Rods for High Voltage Presence Indicating Device



Application:

Capacitor rods are used in 3.6kV~40.5kV presence indication device.

General Parameters:

- ◆ **Dissipation Factor Tan:** ≤ 0.0040 ; Testing Frequency: 1kHz $\pm 20\%$; Testing Voltage: 1V ± 0.2 V;
- ◆ **Insulated Resistance:** $\geq 1.0 \times 10^5 \text{M}\Omega$; Testing Voltage: 1V_{DC} ± 50 V; Testing Time: 1min ± 5 s;
- ◆ **Temperature Characteristics:** 2D₄ (Y5T) ;2B₄ (Y5P) ;DL;
- ◆ **Thread Inserts:** M4;M5;M8;M10;M12;M16;



Instruction:

- ◆ Dimension could be designed in accordance with various customers.
- ◆ Without special instructions, hard-wired products are less than 5pC under the rated voltage 1.1 times.
- ◆ Carried standard DL/T538-2006 (High voltage presence indicating device).
- ◆ Carried standard JBT10305-2001.
- ◆ Mainly used in areas below 3km, note in purchase order as for areas above 3 km.
- ◆ Store under safe, dry and clean environment

Nominal Voltage	Nominal Capacitance	Capacitance Testing Frequency: 1kHz ±20% Testing Voltage: 1V ±0.2V;	Withstanding Voltage (Insulating Oil)	Partial Discharge	Lightning Impulse kV (Peak Value) (Insulating Oil) 1.2/5us
3.6kV _{AC}	230	210~240	32kV _{AC} 5min	3.96kV _{AC} ≦10pC	40
7.2kV _{AC}	5	4~6	41kV _{AC} 5min	7.92kV _{AC} ≦10pC	60
	40	36~44			
	150	140~170			
12kV _{AC}	5	4~6	52kV _{AC} 5min	13.2kV _{AC} ≦10pC	75
	20	18~22			
	40	36~44			
	50	45~55			
	125	110~140			
	200	180~210			
	300	270~330			
24kV _{AC}	5	4~6	70kV _{AC} 5min	26.4kV _{AC} ≦10pC	125
	15	13~17		26.4kV _{AC} ≦10pC	
	35	35~42		26.4kV _{AC} ≦4pC	
	50	45~50		26.4kV _{AC} ≦10pC	
	80	70~90		26.4kV _{AC} ≦10pC	
	150	125~180		26.4kV _{AC} ≦5pC	
	200/400/500	180~220		26.4kV _{AC} ≦10pC	
				26.4kV _{AC} ≦10pC	
40.5kV _{AC}	5	4~6	115kV _{AC} 5min	44.5kV _{AC} ≦10pC	185
	10	8.5~11.5		44.5kV _{AC} ≦5pC	
	45	40~50		44.5kV _{AC} ≦10pC	

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Smart Grid Power Capacitor



Indoor

Capacitance: 3000PF

External diameter: 80mm;

75mm in height

Outdoor

Built-in fuse

Capacitance: 3000PF

External diameter: 80mm;



Features:

- ◆ Fuse and capacitor compose Built-in fuse. (outdoor);
- ◆ High safety. Ineffective capacitor will disconnect fuse and insulate high voltage bus and instrument as well;
- ◆ Do not destruct equipment of next process;
- ◆ Uvioresistant material for outdoor epoxy resin;
- ◆ Fuse is able to be used in severe conditions after thermocycling test 5 times(-30°C~85°C).

Main technical parameters:

- ◆ System voltage: 12kV;
- ◆ Capacitance: 2000~10000pF $\pm 20\%$;
- ◆ Dissipation: ≤ 0.0040 ;
- ◆ Insulation resistance: $> 10^5 \text{ M}\Omega$;
- ◆ Impartial discharge: 14.4kV $< 10\text{pC}$;
- ◆ Lightning impulse: 1.2/50us voltage_{max} 75kV, no breakdown and no flashover;
- ◆ Withstanding voltage : 42kV_{AC}•1min no breakdown and no flashover (air);
- ◆ Protection current: 0.5A (outdoor);

Mainly application fields:

- ◆ Indoor and outdoor 10kV high-voltage transmission lines; taking electricity from the 10kV grid voltage.



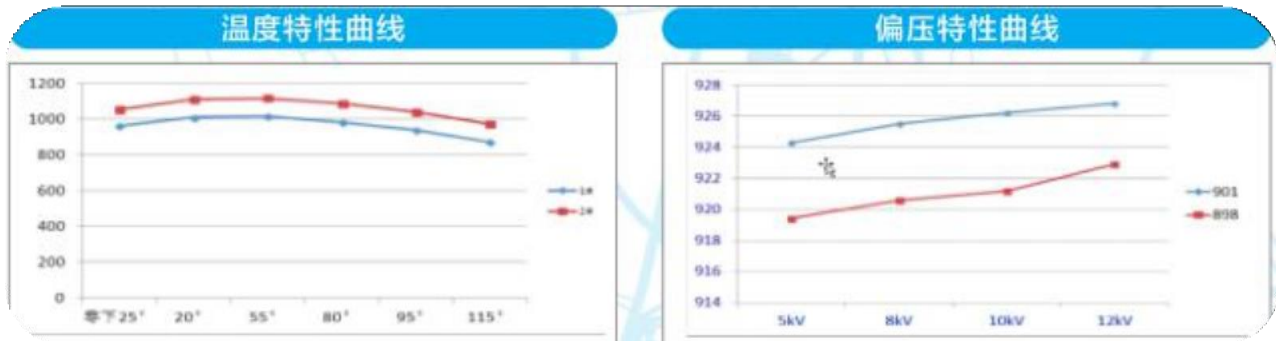
Capacitance Sensor for Smart Grid



- ◆ Capacitance: 150pF/250pF/600pF/900pF;
- ◆ Withstanding voltage: 45kV 1min;
- ◆ Excellent temperature speciality and bias voltage;
- ◆ 12kV smart grid sensors matches with electronic meters and microcomputer measurement and protection equipment. Meanwhile, it can measure, control, protect data transmission and monitor digital live display. Some products can be used in high-voltage live display devices and insulators;
- ◆ Substitution PT;

Temperature characteristic curve

Biasing characteristic curve



-40°C ~ 70°C C变化率小于±1.0%~4.0%

0 ~ 12kV C 偏压特性小于±1.5%~3.0%

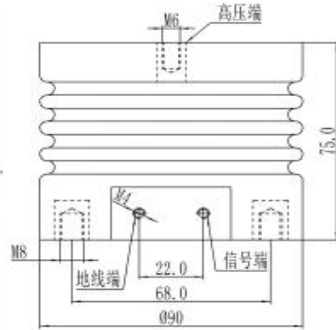
-40 °C - 70 °C changing rate less than ±1.0%-4.0%

0-12kv C bias voltage less than ±1.5%-3.0%

Application fields and features :

- ◆ 12kV smart high voltage distribution cabinet and switch cabinet for the stability of grid;
- 12kV pole top switch for transmission and transformation lines, zero sequence protection and voltage sensor for accurate fault of the direction of ground connection;

10kV System Voltage Divider for Smart Grid



- ◆ **Specification:** CD-10kV-M24, the component of capacitive voltage divider(phase sequence)

Electrical properties:

- ◆ **Divider ratio:** $10\text{kV}/\sqrt{3}/3.25\text{V}/\sqrt{3}$;
- ◆ **Temperature speciality:** $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong 0.5\%$;
- ◆ **Power frequency withstand voltage (high voltage capacitor) :** 50Hz 42kVAC•1min(air);
- ◆ **Impartial discharge: (high voltage capacitor) 14.4kVAC < 10pC(air);**

Lightning impulse: 1.2/50μs 75kV peak;

- ◆ **Insulation resistance:** 1kV•1min $\cong 10^5\text{M}\Omega$;

Operating environment:

- ◆ **Insulating medium;**

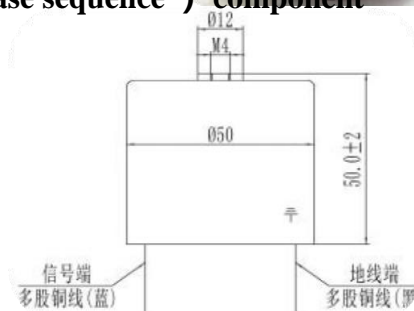
Specification: Capacitive voltage divider (phase sequence) component

CD-10kV-M11

Features:

Divider ratio: $10\text{kV}/\sqrt{3}/3.25\text{V}/\sqrt{3}$;

- ◆ **Temperature speciality:** $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong 0.5\%$;
- ◆ **Power frequency withstand voltage (high voltage capacitor) :** 50Hz 42kVAC•1min(air);
- ◆ **Impartial discharge: (high voltage capacitor) 14.4kVAC < 10pC(air);**
- ◆ **Lightning impulse:** 1.2/50μs 75kV peak;
- ◆ **Insulation resistance:** 1kV•1min $\cong 10^5\text{M}\Omega$;
- ◆ **Operating environment: Insulating medium**



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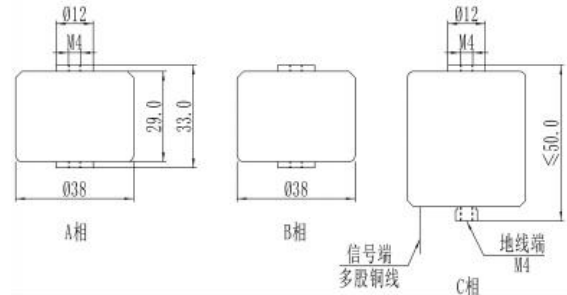
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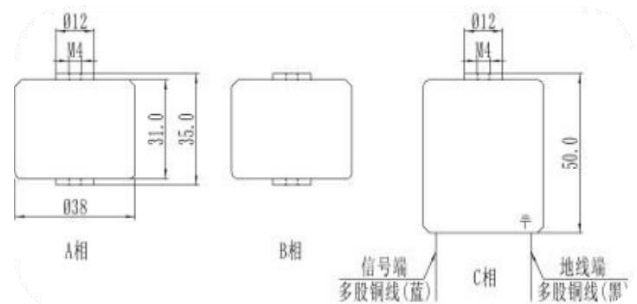
10kV System Voltage Divider for Smart Grid

Specification: capacitive voltage divider (zero sequence protection) component
CD-10kV-P25、P19



Electrical properties:

- ◆ Divider ratio: $10\text{kV}/\sqrt{3}/6.5\text{V}/3$;
- ◆ Temperature speciality: $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong \pm 1.5\%$;
- ◆ High voltage capacitor: A B C three phase consistency $\cong 0.5\%$;
- ◆ Power frequency withstand voltage (high voltage capacitor) : 50Hz 45kVAC•1min(insulating oil);
- ◆ Impartial discharge: (high voltage capacitor) 14.4kVAC $\cong 5\text{pC}$ (insulating oil);
- ◆ Lightning impulse: 1.2/50 μs 75kV peak;
- ◆ Insulation resistance: 1kV•1min $\cong 10^5\text{M}\Omega$;



Features:

- ◆ Divider ratio: $10\text{kV}/\sqrt{3}/6.5\text{V}/3$;
- ◆ Temperature speciality: $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong \pm 1.5\%$;
- ◆ High voltage capacitor: A B C three phase consistency $\cong 0.5\%$;
- ◆ Power frequency withstand voltage (high voltage capacitor) : 50Hz 45kVAC•1min(insulating oil);
- ◆ Impartial discharge: (high voltage capacitor) 14.4kVAC $\cong 5\text{pC}$ (insulating oil);
- ◆ Lightning impulse: 1.2/50 μs 75kV peak;
- ◆ Insulation resistance: 1kV•1min $\cong 10^5\text{M}\Omega$;

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10kV System Voltage Divider for Smart Grid

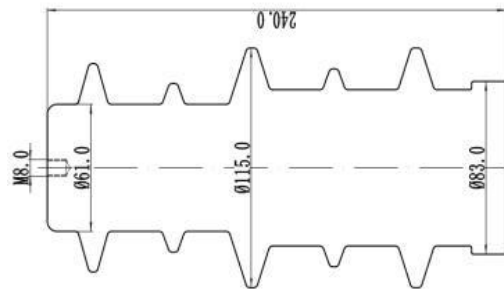
Specification: ring capacitive voltage divider (zero sequence/phase sequence protection) component CD-10kV-M20R/P20



Features:

- ◆ Divider ratio:
Phase sequence: $10\text{kV}/\sqrt{3}/3.25\text{V}/\sqrt{3}$;
Zero sequence: $10\text{kV}/\sqrt{3}/6.5\text{V}/3$;
- ◆ Temperature speciality:
Phase sequence: $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong \pm 0.5\%$;
Zero sequence: $-40^{\circ}\text{C}\sim 70^{\circ}\text{C} \cong \pm 1.0\%$;
- ◆ Capacitance:
STD $\approx 200\text{pF}$ (phase sequence、zero sequence);
- ◆ Power frequency withstand voltage (high voltage capacitor) :
50Hz 42kVAC $\bullet 1\text{min}$ (insulating oil);
- ◆ Impartial discharge (high voltage capacitor) :
14.4kVAC $\cong 10\text{pC}$ (insulating oil);
- ◆ Lightning impulse:
1.2/50 μs 75kV peak;

- ◆ **Specification:** 12kV-5000pF;8000pF capacitor component

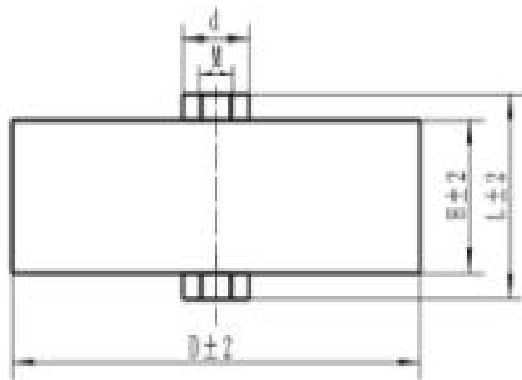


Features:

- ◆ Capacitance: 1V,1kHz,25°C > 5000pF;8000pF;
- ◆ Dissipation: 1V,1kHz,25°C < 0.6%;
- ◆ Power frequency withstand voltage (high voltage capacitor) : 50Hz 45kVAC●1min(air);
- ◆ Insulating resistance: 1kV●1min > 10⁵MΩ



Re-frequency, Energy Storage and Pulse Capacitor



No.	Specification	Dissipation	Withstandin g voltage	Insulation resistance	Dimension (mm)				
					D	H	L	D	M
1	20kV-2000pF	≤ 0.0040	1.5Ur. 1min	$\geq 1.0 \times 10^5 M\Omega$	45	19	23	12	5
2	20kV-10000pF				65	15	19	12	5
3	20kV-18000pF				80	17	25	12	5
4	30kV-1000pF				45	24	32	12	4
5	30kV-2700pF				60	20	28	12	4
6	30kV-12000pF				20	33	41	8	4
7	40kV-150pF				28	33	41	8	4
8	40kV-500pF				80	24	29	12	6
9	40kV-7500pF				80	22	26	16	5
10	40kV-10000pF				50	30	34	12	4
11	50kV-1000pF				32	27	31	16	5
12	50kV-1000pF				80	31	35	16	5
13	50kV-5600pF				50	31	34	12	5
14	60kV-1500pF				65	32	35	16	5
15	60kV-3000pF				50	54	58	12	5
16	100kV-500pF				51	32	35	16	5
17	100kV-2000pF				68	36	40	16	5
18	Insulator type 100kV-1500pF				65	95	100	12	5
19	150kV-820pF				50	90	94	16	5
20	200kV-600pF								

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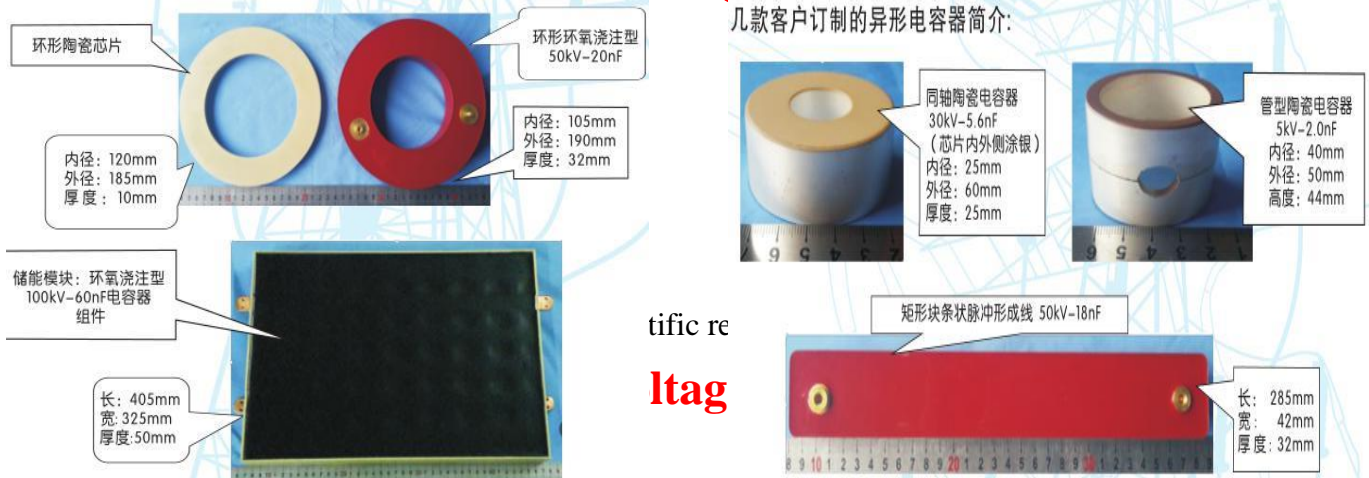


Instruction:

Specific dimension for various customers. Customized dimension for reference only, subject to our available products.

Application: High-voltage DC pulse power supply, lasers, Marx generators, energy storage components, voltage backup power supplies, electrostatic devices, etc.

Re-frequency, Energy Storage and Pulse Capacitor



Major features:

The capacitor component is made from ceramic capacitor. It is not only with advantages of dry oil-free, maintenance-free protection, high withstand voltage and low dissipation, but also with merits of absorption of high-voltage pulses, protection of electronic instruments, long service life, reliable safety, etc.

Dimension:

- ◆ Diameter: 450mm;
- ◆ Overall height (including the upper bolt) : 600mm;
- ◆ Pouring height: 500mm;

Electrical properties:

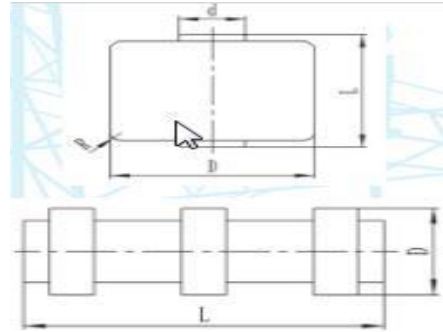
- ◆ Single capacitance: 0.025uF, 4 capacitor components with parallel connection constitute a 0.1uF capacitive component.
- ◆ Dissipation ≤ 0.0010 ;
- ◆ Withstanding voltage: pv 85kV 1min;
- ◆ Lightning impulse: 1.2/50us 185kV;

Application:

- ◆ Overvoltage resistance-capacitance absorption device can be apply into phase-divided section for railway electric traction system



Grading Capacitor



Application:

- ◆ Used in 550kV/750kV/1100kV metal oxide arrester voltage equalization system;
- ◆ Used in the fracture of 24kV~750kV high-voltage circuit breakers for voltage equalization;
- ◆ Vacuum circuit breaker;

General parameters:

- ◆ Testing frequency: $1\text{kHz} \pm 20\%$; Testing voltage: $1\text{V} \pm 0.2\text{V}$;
- ◆ Insulation resistance: $\geq 1.0 \times 10^5 \text{M}\Omega$; Testing voltage: $1\text{VDC} \pm 50\text{V}$; Testing time: $1\text{min} \pm 5\text{s}$;
- ◆ Temperature specific: 2D4(Y5T); 2B₄(Y5P);



Electrical properties of represented products :

No.	Specification	Tempe rate specifi c	Dissipat ion	Power frequency withstand voltage	Partial discharg e	Dimension(m m)		
						D	L	d
1	3.5kV _{AC} -700p F	2B ₄	≡ 0.0080	20kV●1m in	≡ 10pC	24	26	6
2	3.85kV _{AC} -1100 pF	2B ₄	≡ 0.0080	20kV●1mi n	≡ 10pC	31	26	10
3	10kV _{AC} -1850p F	2D ₄	≡ 0.0040	33kV●1mi n	≡ 3pC	39	26	18
4	20kV _{AC} -400pF			45kV●1m in		30	35	10
5	20kV _{AC} -650pF			45kV●1mi n		36	35	10
6	20kV _{AC} -910pF			45kV●1mi n		40	33	10
7	24kV _{AC} -1100p F			60kV●1mi n	≡ 10pC	80	260	10
8	30kV _{AC} -1080p F			60kV●1mi n	≡ 3pC	40	33	15

Instruction:

- ◆ Customized dimension;
- ◆ Carried technical standard of GB/T 11022-2011 for high-voltage switch gear and control equipment.

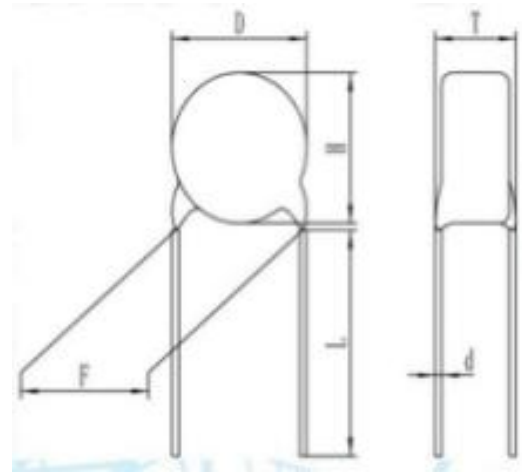
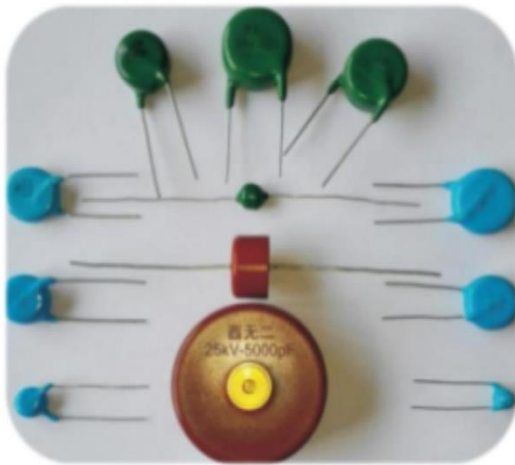
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Capacitors for High-voltage Power Supplies



Specification	Dissipation	Withstanding voltage	Insulation resistance	Dimension(mm)				
				D	T	F	d	L
30kV-332M	≤ 0.0040	1.5Ur 60s	≥1.0×10 ⁵ MΩ	27.0	15.0	19.0	0.8	20.0
30kV-302M				25.0	14.0	19.0	0.8	20.0
30kV-222M				22.0	14.0	19.0	0.8	20.0
25kV-511M				18.0	12.0	12.5	1.0	20.0
30kV-102M				21.0	11.0	19.0	0.8	20.0
20kV-10k				6.5	7.0	8.0	0.6	20.0
20kV-101k				7.5	8.5	/	0.6	50.0
20kV-102k				18.0	11.0	12.5	0.8	20.0
20kV-102k				23.0	10.0	10.0	0.8	20.0
20kV-562k				24.0	10.0	19.0	0.8	20.0
15kV-511k				15.0	11.0	12.5	0.8	20.0
15kV-102k				16.0	8.0	12.5	0.8	20.0
10kV-101k				6.0	6.0	7.5	0.6	20.0
10kV-221k				7.5	6.5	10.0	0.6	20.0
10kV-102k				15.0	7.0	10.0	0.8	20.0
6kV-101k				10.0	6.5	10.0	0.6	20.0
10kV-10k				8.0	12.0	10.0	0.6	20.0



Instruction :

- ◆ Provide customized products.
- ◆ Dimension for reference only, subject to our available products.
- ◆ Application : High-voltage generators, high-voltage power supplies, X-ray machines, CT machines and other medical equipment and security equipment



Major Production Equipment and Testers



JF-2000 Impartial Discharge Tester



**Net Bag Type Lead-free Reflow
Soldering Machine**



**Autonomic Insulation Oil
Withstanding Voltage Tester**





Capacitance Tester



18m Automatic U-turn Kiln



Withstanding Voltage Tester



160T Press



High & Low Temp. Cycle Chamber

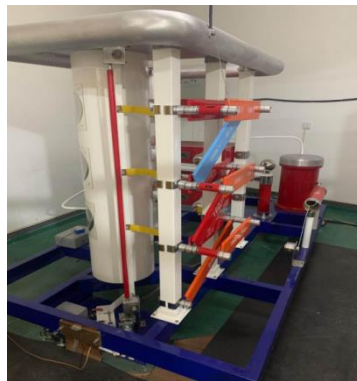
Xian Xiwuer Electronic & Info. Co., Ltd.
No.1118, Ziqiang Road, Xi'an-710015, Shaanxi, China.
Tel: 86-29-86226884 | Fax:86-29-86252920
E-mail: xiwuer@xiwuer.com | www.xiwuer.com



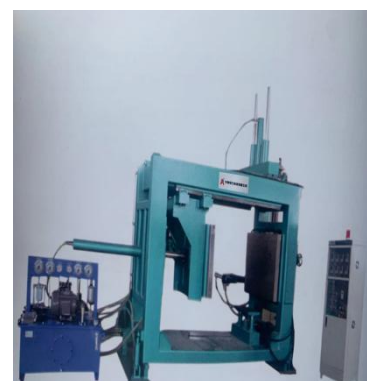
Major Production Equipments and testers



Electronic Type Instrument Transformer Tester



Lightning Impulse Voltage Withstanding Tester



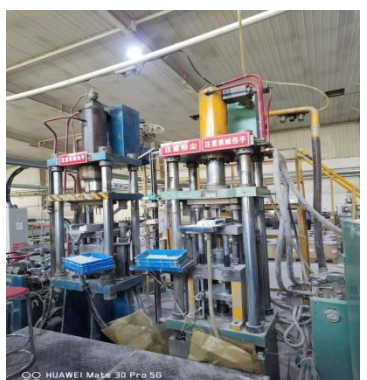
APG Pouring Machine



Digital High Voltage Capacitance Bridge



Dry Powder Automatic Shaping Hydraulic Press



26m Automatic U-turn Kiln

