Manufacturer : Anshan Keifat Electronic Ceramic Technical Co., Ltd. **No：**

Approval Sheet for Product Specification

Customer:

Product: Sensor Ceramic Capacitor

PART No.:

Mfr. P/N:

Date： 年 月 日

Manufacturer		**Customer Confirm**	
Prepared by	张颖	合 格 OK ☐ 不合格 NG ☐	
Checked by	于金龙	**Checked by**	
Approved by	范垂旭	**Approved by**	

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Revision History

Edition	Date	Contents of formulation / modification / repeal	Formulation	Approval
A		New edition released	张颖	于金龙

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■ **Trait**

- Excellent temperature characteristics
- Low dissipation
- High insulation resistance
- High breakdown strength
- Fully symmetric full copper electrode

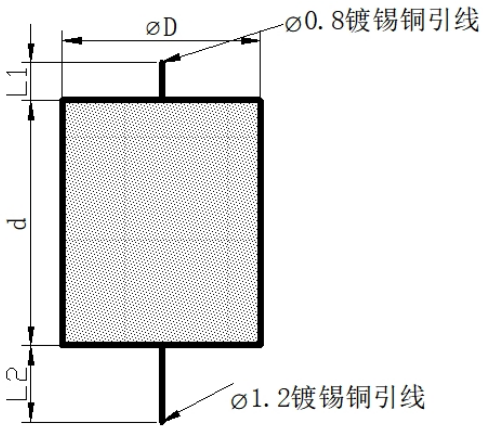
■ **Application**

- Smart grid
- High voltage power supplies
- CO2 lasers

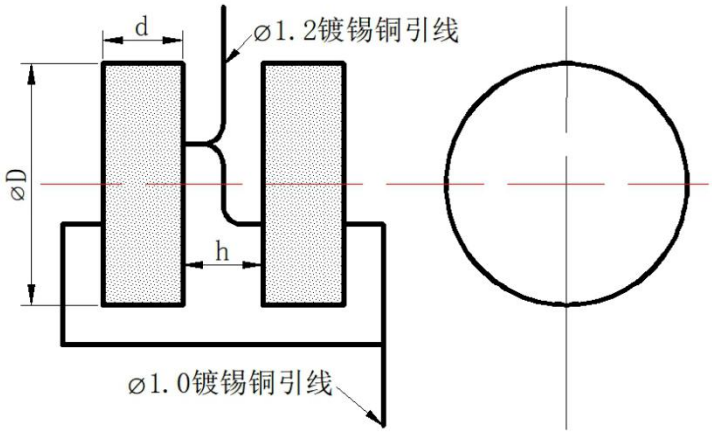
■ **Range Of Capacity**

100 pF to 300pF

■ **Dimensional Drawing**



Single chip



Double chip

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■ Specification

Type	Specifications	Rated voltage ratio		Accuracy level		Angle difference	Temperature range	Partial discharge	Test voltage	Dimensions millimeters (±1)					Remarks
		Zero sequence	Phase sequence	Zero sequence	Phase sequence					ϕD	d	h	L1	L2	
Zero phase Sequence integration	10KV-150pF	(10kV/√3)/(6.5V/3)	(10kV/√3)/(3.25V/√3)	3P 级	0.5P 级	≤20′	-40℃ ~70℃	≤3pC (14.4kVAC)	42kVAC 1min	45	12		150	150	Single chip
	10KV-220pF							≤3pC (14.4kVAC)	42kVAC 1min	45	12	10			Double chip
	10KV-250pF							≤3pC (14.4kVAC)	42kVAC 1min	45	11	10			Double chip
Zero sequence	10KV-250pF	(10kV/√3)/(6.5V/3)		3P 级		≤20′	-40℃ ~70℃	≤3pC (14.4kVAC)	42kVAC 1min	32	25		30	150	Single chip
Phase sequence	10KV-115pF		(10kV/√3)/(33.5V/√3)		0.5P 级	≤20′	-40℃ ~70℃	≤3pC (14.4kVAC)	42kVAC 1min	45	12		150	150	Single chip

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■ **Specification and Test Method**

Item		Specifications	Testing Method
Appearance	1 Appearance and Dimensions	No marked defect	Shall be visually examined or Venire calipers.
	2 Material	Capacitor elements made from ceramic sealed with insulating paint.	
Electrical performance	3 Capacitance	Within the specified tolerance	The capacitance shall be measured at 20° C with 1±0.2kHz and AC5V(r.m.s) max..
	4 Dissipation Factor (D.F)	0.2%Max.	The capacitance shall be measured at 20° C with 1±0.2kHz and AC5V(r.m.s) max.
	5 Insulation Resistance (I.R)	200,000MΩ.min.	The insulation resistance shall be measured with DC 500V within 60±2 s. of charging.
	6 Power frequency withstand voltage	Between terminal	42KVAC（In oil）,1min.
	7 Temperature Characteristics	0±30ppm/°C	The capacitance measurement shall be made at each step specified in table. Capacitance change from the value of step 3 shall not exceed the limit specified

Step	1	2	3	4	5
	20±2°C	-40±2°C	20±2°C	70±2°C	20±2°C

	8 Corona limit	≤3pC	14.4KV AC (in oil)

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Item		Specifications		Testing Method	
Climatic Tests	9 Humidity (under Steady State)	Capacitance	≤10%	Set the capacitor for 100h at 40±2° C in 90 to 95% humidity.	
		D.F	<1%		
		I.R	>10^9 Ω		
	10 Temperature cycle test	The Capacitor should be normal, the requirement in item 5 to10 of the table shall be met.		Pass through the atmosphere -40℃, 1h→RT, 0.5h→+80℃, 1h; 10 cycles.	
	11 Life Test	Capacitance change	±5%	Apply a DC voltage of 125% of the rated voltage for 100+24/-0 h in oil at 85±2℃.Post-treatment : capacitor shall be stored for 24±2h at room condition. (charge/discharge current:50mA max.)	
		D.F	1.0%max.		
		I.R	1,000MΩ		
				size	pull (N)
				M5	5.0

Operating temperature range: -40℃~70℃

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Announcements:

（1） Handing and storage

Please avoid handing and storage in high temperature, humidity and rain.

Collision avoidance.

Do not expose to H_2SO_4, HCL, HNO_3 and other toxic gases.

（2） Operating

Collision avoidance.

Please do not get sweat and other electrolytes. Please do not operate with bare hands.

Do not weld on the screw terminals.

（3）Using

Avoid as much as possible the transfer of radioactive heat from mechanical piping, etc., to the capacitor.