	Specification admission of ceramic capacitors			
	number	WI-002B-001	Make the date	September 24,2018
	Distributed edition	V 1.0	page numbering	

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1. purpose:

The letter of recognition is made to reach an agreement with customers on product quality, and also can serve as a standard role in the dispute of quality issues.

2. scope of application

This acceptance is applicable to the company to manufacture and sell the circular porcelain dielectric capacitor with the rated voltage not greater than 6300VDC. At the same time, it can be used as the technical quality index of our company products, and applied to order, feed, production, inspection, sales and other links.

3. Reference standards

This specification is formulated according to the GB / T2693-200 standard.

4. Material number encoding rules

4.1. Description of product specification and model naming method code:

A5	07	F	1	E	471	M B	
<1>	<2>	<3>	<4>	<5>	<6>	<7>	<8>

<1>.the classification of voltage

Rating code	50	A1	A2	A3	A5
rated voltage	500VDC	1000VDC	2000VDC	3000VDC	5000VDC

<2>. Product outer diameter

code	06	07	08	09	10	11	***
Product outer diameter size	6.00mm	7.00mm	8.00mm	9.00mm	10.00mm	11.00mm	***

<3>.temperature characteristic

Temperature feature code	Lower limit use temperature	Upper limit use temperature	reference temperature	Maximum electric capacity Relative change rate
Y5P (B)	-30℃	+85℃	+25℃	±10%
Y5U (E)	-30℃	+85℃	+25℃	+22%,-56%
Y5V (F)	-30℃	+85℃	+25℃	+22,-82%
SL(S)	-30℃	+85℃	+25℃	+100,-1000（ppm/℃）

NPO (N)	-30℃	+85℃	+25℃	0±60 (ppm/℃)

〈4〉. Foot type

Foot code	1	2	3	4	5	7
Foot type	Long line type	Single outer bend	Short line type	Single inner curved type	Double curved type	Front and rear warped type

〈5〉.width of guard

Foot distance code	A	B	E	D	F
width of guard (MM)	4.0	5.0	7.5	10.0	12.5

〈6〉.rated capacitance

code	4R7	1R0	220	471	222	472	103
rated capacitance	4.7PF	1PF	22PF	470PF	2200PF	4700PF	10000PF

〈7〉. Allowable deviation of the capacitance

code	J	K	M	Z
Allowable deviation of the capacitance	±5%	±10%	±20%	-20%,+80%

(8). Indicates how to pack

code	manner of packing
B	bulk
T	braid

5. Acknowledge the specification list

order number	Customer material number	Product code	Product dimensions (mm)						
			Dmax	Tmax	Lmin	F±0.8	Φ±0.05	c Max	material quality
01		A507F1E471MB	7.5	4.5	22	7.5	0.55	3.0	Y5V

Please read the relevant contents of this admission book carefully before your use, testing and testing!

If the specifications ordered by your company are not included in this unit or are inconsistent with this admission letter, please contact the business department and technology department of our company!

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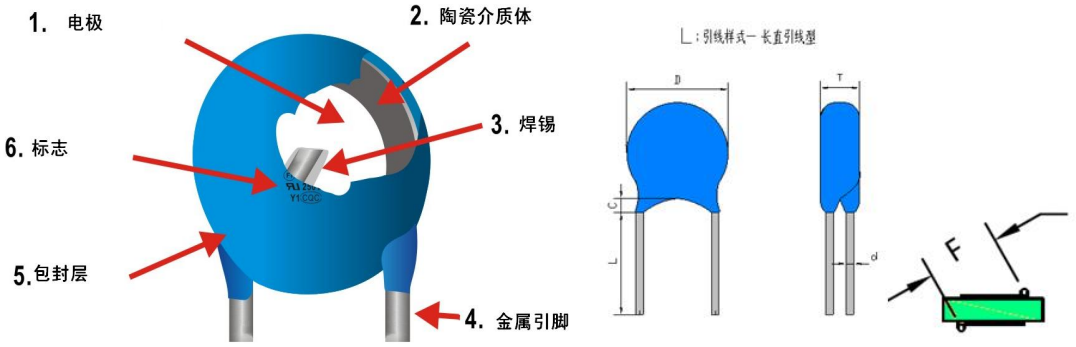
Vi. Product composition and structure diagram and external dimension drawing:

Structural diagram of safety gauge ceramic capacstructure



Note: The coating layer is epoxy resin coating, and the color is blue;

7. The examples of ontology signs are as follows:

project			
			Product marking
①	Seal content description	1. Second row "471": indicates nominal capacity 2. The third line, "5KV": indicates the rated voltage	471 5KV

VIII. Standards and test methods

condition of experiment

Testing and testing must be performed under standard conditions (temperature 15~30℃, relative humidity 45~75%, pressure 86 ~ 106 Kpa).

Unless otherwise stated, if questionable and specifically requested, the capacitor must be tested under base conditions (temperature 25 ± 2℃, relative humidity 60-70%, air pressure 86 ~ 106 Kpa).

function.

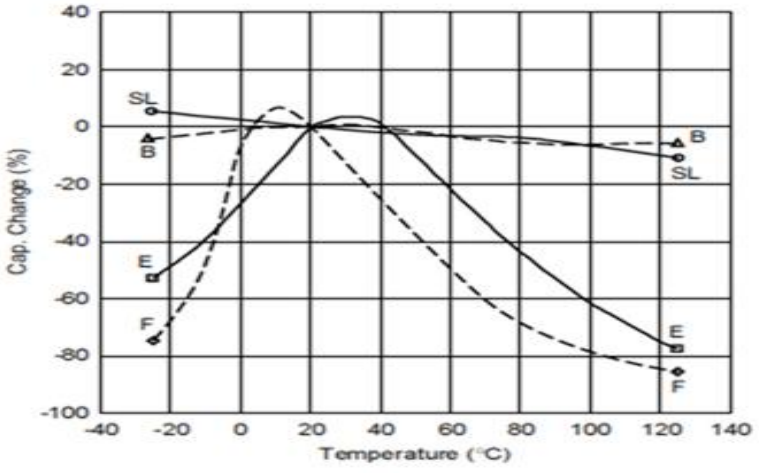
project		test condition	acceptance standard
Class II por	capacitance	temperature:25℃±2℃ Humidity: 50~60% Voltage: 1.0V ± 0.2 Vrms Frequency: 1±0.2K H_z	Within the specified allowable deviation range: C : ±0.25PF , D : ±0.5PF , J : ±5% K : ±10%, M : ±20%

ceramic dielectric capacitor	loss tangent		The loss angle is tangent to 2.5%
	withstand voltage	Charging current is 0.05A Time of applied voltage: 1min	Test Voltage 1.5 UR + 500V (VDC) The capacitor shall have no breakdown or flying arc during the test period.
	insulation resistance	measuring voltage: U_R<500V, and the arbitration voltage is U_R U_R500V, arbitration voltage 500V Charging current is 0.05A Measurement time: 1min	R ≥4000MΩ

Room temperature was defined as conditions with a temperature of 15 - 30° C, a relative humidity of 45 - 75%, and an air pressure of 86 - 106 Kpa.

9. Temperature characteristic curve

B: Y5P E: Y5U F: Y5V S:SL



X. Storage environment requirements

1, due to the existence of hydrogen chloride, hydrogen sulfide, sulfuric acid substances in the atmosphere, so the product stored in the atmosphere, must pay attention to the soldability of the lead end.

2, the product can not be exposed to high temperature and high humidity state, must be stored in the following environment: (on the basis of not opening the original packaging)

A, temperature:≤35℃

B, Humidity: 70% RH

C. Save time: (starting from the date on the product packaging or product ontology)

Bulk products: no more than 24 months

Product production: no more than 12 months.

eleven. Environmental management to control substances

order number	Types of harmful substances	Names of harmful substances	Limit content
1	heavy metal	Cadmium and cadmium compounds	＜100ppm
		Lead as well as the lead compounds	＜1000ppm
		Mercury, as well as the mercury compounds	＜1000ppm
		hexavalent chromium compound	＜1000ppm
2	Organic bromide	PBB (PBB)	＜1000ppm
		(DecaBDE) PBE (PBDE) containing DBE	＜1000ppm