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

Approval Sheet for Product Specification

Customer:

Product: Screw Type UHV 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
- Epoxy coating
- Screw terminal mounting

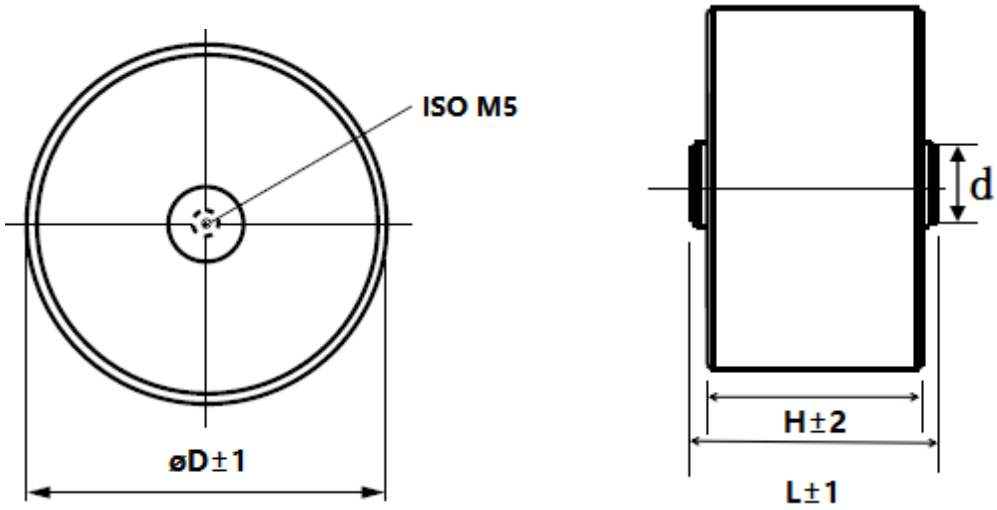
■ Application

- Smart grid
- High voltage power supplies
- CO_2 lasers
- X-ray equipment
- Welding equipment

■ Range Of Capacity

10 pF to 10,000pF

■ Dimensional Drawing



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■ Specification

Type	Rated Voltage kVdc	Test Voltage kVdc	Corona Inception Voltage (kVrms) (<10pc)	Capacitance (pF)	Dimensions millimeters (mm)				Terminal Type
					D ± 1	L ±1	H ± 2	d	
AECT8G-30KV-N4700-701K	30	45	12	700	30	22	17	12	ISO M5
AECT8G-30KV-N4700-102K				1000	30			12	
AECT8G-30KV-N4700-122K				1200	40			14.5	
AECT8G-30KV-N4700-152K				1500	40			14.5	
AECT8G-30KV-N4700-472K				4700	55			14.5	
AECT8G-30KV-N4700-781K				780	30	25	20	12	
AECT8G-30KV-N4700-102K				1000	40			12	
AECT8G-30KV-N4700-112K				1100	40			14.5	
AECT8G-30KV-N4700-172K				1700	45			14.5	
AECT8G-30KV-N4700-182K				1800	45			14.5	
AECT8G-30KV-N4700-202K				2000	50			14.5	
AECT8G-30KV-N4700-252K				2500	55			14.5	
AECT8G-30KV-N4700-272K				2700	55			14.5	
AECT8G-30KV-N4700-302K				3000	55			14.5	
AECT8G-30KV-N4700-332K				3300	55			14.5	
AECT8G-30KV-N4700-362K				3600	60			14.5	
AECT8G-30KV-N4700-103K				10000	90			14.5	
AECT8G-30KV-N4700-591K				590	30	28	23	12	
AECT8G-30KV-N4700-941K				940	40			14.5	
AECT8G-30KV-N4700-172K				1700	50			14.5	
AECT8G-40KV-N4700-401K	40	60	16	400	30	30	25	12	ISO M5
AECT8G-40KV-N4700-202K				2000	60			14.5	
AECT8G-40KV-N4700-441K				440	30	30	25	12	
AECT8G-40KV-N4700-571K				570	30			12	
AECT8G-40KV-N4700-751K				750	40			14.5	
AECT8G-40KV-N4700-102K				1000	50			14.5	
AECT8G-40KV-N4700-122K				1200	45			14.5	
AECT8G-40KV-N4700-142K				1400	50			14.5	
AECT8G-40KV-N4700-172K				1700	55			14.5	
AECT8G-40KV-N4700-202K				2000	55			14.5	
AECT8G-40KV-N4700-242K				2400	60			14.5	
AECT8G-40KV-N4700-272K				2700	60			14.5	
AECT8G-40KV-N4700-332K				3300	70			14.5	

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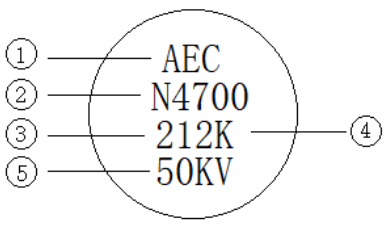
Type	Rated Voltage kVdc	Test Voltage kVdc	Corona Inception Voltage (kVrms) (<10pc)	Capacitance (pF)	Dimensions millimeters (mm) D ± 1	L ±1	H ± 2	d	Terminal Type
AECT8G-50KV-N4700-281K	50	75	20	280	30	37	32	12	ISO M5
AECT8G-50KV-N4700-341K				340	30	33	28	12	
AECT8G-50KV-N4700-561K				560	40			14.5	
AECT8G-50KV-N4700-851K				850	40			14.5	
AECT8G-50KV-N4700-102K				1000	45			14.5	
AECT8G-50KV-N4700-212K				2100	60			14.5	
AECT8G-50KV-N4700-222K	50	75	20	2200	60	33	28	14.5	ISO M5
AECT8G-50KV-N4700-302K				3000	70			14.5	
AECT8G-50KV-N4700-602K				6000	80	80	75	14.5	
AECT8G-60KV-N4700-501K	60	90	24	500	40	40	35	14.5	ISO M5
AECT8G-60KV-N4700-701K				700	45			14.5	
AECT8G-60KV-N4700-851K				850	50			14.5	
AECT8G-60KV-N4700-102K				1000	45			14.5	
AECT8G-60KV-N4700-122K				1200	55			14.5	
AECT8G-70KV-N4700-202K	70	100	28	2000	60	40	35	14.5	ISO M5
AECT8G-100KV-N4700-751K	100	150	40	750	60	46	41	14.5	ISO M5
AECT8G-100KV-N4700-102K				1000	60			14.5	
AECT8G-120KV-N4700-102K	120	180	48	1000	60	53	48	14.5	ISO M5
AECT8G-150KV-N4700-251K	150	220	60	250	30	53	48	12	ISO M5
AECT8G-150KV-N4700-801K				800	60			14.5	

■ **Marking**



①Manufacturer Marking
②Temperature Characteristic
③Rated Capacitance
④Tolerance of Capacitance
⑤Rated Voltage

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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 Marking	To be easily legible	Shall be visually examined.
	3 Material	Capacitor elements made from N4700 ceramic in a molded epoxy case. Screw terminals: Terminals silver-plated.	
	4 Thread	ISO M5	Check with ISO M5 bolts
Electrical performance	5 Capacitance	Within the specified tolerance	The capacitance shall be measured at 20° C with 1±0.2kHz and AC5V(r.m.s) max..
	6 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.
	7 Insulation Resistance (I.R)	200,000MΩ.min.	The insulation resistance shall be measured with DC 500V within 60±2 s. of charging.
	8 Power frequency withstand voltage	Between terminal	150% of rated voltage (In oil),1min.
	9 Temperature Characteristics	-4700±1000ppm/°C	The capacitance should be measured at each step as below table.

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

	10 Corona limit	<10pC	at 40% rated AC voltage (In oil).

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<table>
<tr><th colspan="2">Item</th><th colspan="2">Specifications</th><th>Testing Method</th></tr>
<tr><td rowspan="7">Climatic Tests</td><td rowspan="3">11 Humidity (under Steady State)</td><td>Capacitance</td><td>≤10%</td><td rowspan="3">Set the capacitor for 100h at 40±2° C in 90 to 95% humidity.</td></tr>
<tr><td>D.F</td><td><1%</td></tr>
<tr><td>I.R</td><td>>10^{9}Ω</td></tr>
<tr><td>12 Temperature cycle test</td><td colspan="2">The Capacitor should be normal, the requirement in item 5 to10 of the table shall be met.</td><td>Pass through the atmosphere -40℃, 1h→RT, 0.5h→+80℃, 1h; 10 cycles.</td></tr>
<tr><td rowspan="3">13 Life Test</td><td>Capacitance change</td><td>±5%</td><td rowspan="3">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.)</td></tr>
<tr><td>D.F</td><td>1.0%max.</td></tr>
<tr><td>I.R</td><td>1,000M</td></tr>
<tr><td rowspan="4">Mechanical Performance Test</td><td rowspan="4">14 Strength of Terminal</td><td>Torque strength</td><td>Capacitor shall not be broken.</td><td>When mounting the capacitors on equipment, be sure to mount them within the torque strength values shown in the table below.
size | torque (N • m)
M5 | 1.5</td></tr>
<tr><td rowspan="3">pull</td><td rowspan="3">No unusual</td><td>Fix the body of capacitor apply a tensile weight gradually to each terminal in the radial direction of capacitor up to table below.</td></tr>
<tr><td>size | pull (N)</td></tr>
<tr><td>M5 | 5.0</td></tr>
</table>

Operating temperature range:-30 ℃～+85℃

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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.

Do not rework the terminals.

（3）Using

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