

客户**Customer:** 东莞市美瑞电子有限公司

日期**Date:** 2026年6月17日

承 认 书

SPECIFICATION

种 类: 固态铝电解电容器
Description: Conductive Polymer Aluminum Solid Capacitors
艾华料号 AISHI P/N: SPZ1DM271F11O00REX18
系 列 SERIES: PZ
规 格 尺 寸 SPEC.: 20V270uF(Φ8*11)
客户料号 Customer P/N: /
编 号No. : CRS-FX-2606309

批准 Approval			客户确认 Client Confirmation	
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制订/修订履历表Change Records

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1.概述Scope

此承认书使用于含有导电高分子电解质的PZ系列固态电解电容

This specification specifies the PZ series of aluminum solid capacitors with conductive polymer electrolyte.

2.使用温度范围Operating Temperature Range (-55~105℃)

使用温度范围是指电容在额定电压下可以稳定运行的环境温度范围

The operating temperature range indicates the ambient temperature range at which the capacitor can be operated continuously at its rated voltage.

3.特性Characteristics

除非另有说明，标准的测量和测试环境条件如下：

Unless otherwise specified, the standard measurement and test environmental conditions are as follows:

环境温度Ambient temperature : 15 to 35°C

大气压力Air pressure: 86kpa to 106kpa

若对结果有疑问，测试则按如下标准进行

If there is any doubt about the results, measurements shall be taken within the following conditions:

环境温度Ambient temperature : 20±2℃

大气压力Air pressure: 86kpa to 106kpa

4. 额定电压、浪涌电压和额定温度 Rated Voltage, Surge Voltage and Rated Temperature

额定电压 Rated Voltage(V)	额定温度 Rated Temperature(°C)	浪涌电压 Surge Voltage (V)
2.5	105	2.88
6.3	105	7.25
6.8	105	7.82
7	105	8.05
7.5	105	8.63
10	105	11.5
12	105	13.8
16	105	18.4
20	105	23
25	105	28.75
35	105	40.25
50	105	57.5
63	105	72.45
80	105	92
100	105	115

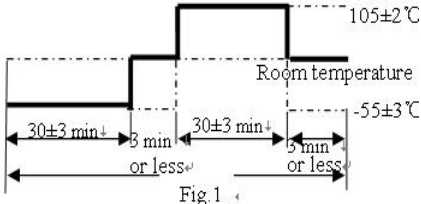
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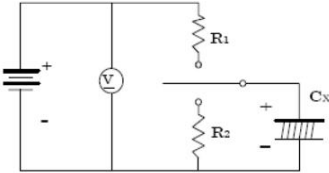
6.2 耐受能力 Endurance Performance

序号 No.	项目 Item	测试方法 Test Method	性能 Performance
6.2.1	负荷寿命试验 Load Life Test	电容在105±2℃, 额定电压下, 加载直流电流2000小时后, 需在室温下放置2小时才可进行测试。 After being exposed to a direct current (DC) for 2000 hours at a temperature of 105 ± 2℃ and the rated voltage, the capacitor should be left at room temperature for two hours before measurement.	容量变化: 在初始值的±20%内 Capacitance change: ±20% of the initial value. 损失角: 小于规格值的150% tan δ ≤ 150% of the initial specified value. 等效串联电阻≤规格值的150% ESR ≤ 150% of the initial specified value. 漏电流≤0.2CV值或500μA中的一个较大值 Leakage current ≤ 0.2CV or 500 μA, whichever is greater. 外观: 没有明显的损伤 Appearance: There is no significant damage.
6.2.2	振动试验 Vibration Test	依照JIS C 5102 8.2和 JIS C 5025 This complies with JIS C 5102 8.2 and JIS C 5025. 频率: 10到55Hz(1分钟间隔/10→55→10Hz) Frequency: 10 to 55Hz (1-minute interval/10→55→ 10Hz) 振幅: 0.75mm(整体偏移1.5mm) Amplitude: 0.75mm (overall offset: 1.5mm) 方向: X, Y, Z (3 轴) Direction: X, Y, and Z (3 axes) 持续时间: 2小时/轴 (共6小时) Duration: 2 hours per axis (6 hours total)	容量变化在初始值的±5%内 Capacitance change: ±5% of the initial value. 损失角≤规格值 tan δ ≤ the initial specified value. 等效串联电阻≤规格值 ESR ≤ the initial specified value. 漏电流≤规格值 Leakage current ≤ the initial specified value. 外观: 没有明显的损伤 Appearance: There is no significant damage.
6.2.3	可焊性 Solderability Test	温度: 235℃ ± 5℃ (锡铅焊料) 245℃ ± 5℃ (锡银铜焊料) Temperature: 235℃ ± 5℃ (for Sn-Pb solder) 245℃ ± 5℃ (for Sn-Ag-Cu solder) 持续时间: 5 ± 0.5秒 Duration: 5 ± 0.5 seconds	至少95%的浸渍表面覆盖有新的焊料 At least 95% of the surface area of the dipped portion of the terminal shall be covered with new solder.

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序号 No.	项目 Item	测试方法 Test Method	性能 Performance
6.2.4	耐焊接热 Soldering Test	(1)焊浴法 Solder bath method 温度: 260 ±5℃ Temperature: 260 ±5℃ 持续时间: 10±1秒 Duration: 10±1 seconds 一直到间距为1.0mm的情况下 Until it is 1.0 mm away from the case. (2)烙铁施焊法 Soldering iron method 温度: 400 ± 10 °C Temperature: 400 ± 10 °C 持续时间: 3+1/-0秒 Duration: 3+1/-0 seconds	容量变化在初始值的±5%内 Capacitance change: ± 5% of initial capacitance. 损失角≤ 规格值的130% Tanδ≤130% of the initial specified value. 等效串联电阻≤ 规格值的130% ESR≤ 130% of the initial specified value. 漏电流≤0.2CV值或500μA中的任一个较大值 Leakage current≤ 0.2CV or 500μA, whichever is greater.
6.2.5	稳态湿热 (恒稳态) Steady State Damp Heat Test	温度: 60±2℃ Temperature: 60±2℃ 相对湿度: 90% ~ 95% Relative humidity: 90% ~ 95% 持续时间: 1000 (-0/+48)小时 Duration: 1000 (-0/+48) hrs 使用电压: 无负荷 Operating voltage: No load	电容变化在初始值的±20%内 Capacitance change: ±20% of the initial value. 损失角≤ 规格值的150% tan δ≤ 150% of the initial specified value. 等效串联电阻≤ 规格值的150% ESR≤ 150% of the initial specified value. 漏电流≤0.2CV值或500μA中的任一个较大值 Leakage current≤ 0.2CV or 500μA, whichever is greater.
6.2.6	快速变温 Rapid Temperature Cycling Test	 使用电压: 无负荷 Operating voltage : no load 循环次数: 10次 Number of cycles: 10 测试图: 图 1 Test Figure: Fig. 1	容量变化: 在初始值的±10%内 Capacitance change: ±10% of the initial capacitance. 损失角: 小于或等于规格值 tanδ≤ the initial specified value. 漏电流≤0.2CV值或500μA中的任一个较大值 Leakage current≤0.2CV or 500μA, whichever is greater.

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序号 No.	项目 Item	测试方法 Test Method	性能 Performance
6.2.7	浪涌电压 Surge Test	额定浪涌电压充电30s后，在室温下放电5min30s。这一过程重复1000次，每一次循环的时间为6min，测试温度为15℃-35℃。测试电路如下图所示： Charge for 30 seconds at the rated surge voltage, then discharge for 5 minutes and 30 seconds at room temperature. Repeat this process 1,000 times, with each cycle lasting 6 minutes, at a test temperature ranging from 15°C to 35°C. The test circuit is shown in the figure below:	漏电流$\leq 0.2C_V$值或500μA中的任一个较大值 Leakage current$\leq 0.2C_V$ or 500μA, whichever is greater. 容量改变在初始值的$\pm 20\%$内 Capacitance change: $\pm 20\%$ of the initial value. 损失角$\leq$规格值的150% $\tan\delta \leq 150\%$ of the initial specified value. 等效串联电阻$\leq$规格值的150% ESR$\leq 150\%$ of the initial specified value.
		Test circuit :  $\textcircled{V}$: DC voltmeter R1: Protective resistor 1kΩ R2: Discharging resistor 1kΩ Cx: Testing capacitors (10pcs)	备注：若浪涌电压测试标准不能满足整机实际ON/OFF要求，请在样品阶段与我司RD确认，并将具体测试要求反馈给我司，包括测试电压、浪涌电流、充放频率、循环次数、测试温度及性能表现等。 Note: If the surge test standard is inconsistent with the actual on/off requirements of the end product, please confirm with our RD team during the prototype phase. Feedback the specific test requirements to Aishi, including test voltage, surge current, charge and discharge frequency, cycle times, test temperature, and performance, etc.

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序号 No.	项目 Item	测试方法 Test Method	性能 Performance																								
6.2.8	端子强度 Terminal Strength Test	端子抗拉强度： 沿电容器端子引线方向施加拉力（如下表）， 30±1s Terminal tensile strength: A tensile force (see the table below) should be applied to the terminal in an axial direction, away from the body, for 30 ± 1 seconds. <table><tr><td>引线直径 Diameter Φ</td><td>0.45 mm</td><td>0.5 mm</td><td>0.6 mm</td><td>0.8 mm</td><td>1.0 mm</td></tr><tr><td>拉力 Tensile Force (N)</td><td colspan="2">5N</td><td colspan="2">10N</td><td>25N</td></tr></table> 端子抗弯强度： 在电容器引线施加固定重力（如下表）， 然后， 将电容器弯折 90°后回到原位， 再向相反方向弯折90°后回到原位。 上述过程在5秒内完成。 Terminal bending strength: Apply a fixed load to the capacitor leads as shown in the table below. Then bend the capacitor through 90° in one direction, return it to its original position, bend it through 90° in the opposite direction, and return it to its original position. This process must be completed within 5 seconds. <table><tr><td>引线直径 Diameter Φ</td><td>0.45 mm</td><td>0.5 mm</td><td>0.6 mm</td><td>0.8 mm</td><td>1.0 mm</td></tr><tr><td>拉力 Tensile Force (N)</td><td colspan="2">2.5N</td><td colspan="2">5N</td><td>10N</td></tr></table>	引线直径 Diameter Φ	0.45 mm	0.5 mm	0.6 mm	0.8 mm	1.0 mm	拉力 Tensile Force (N)	5N		10N		25N	引线直径 Diameter Φ	0.45 mm	0.5 mm	0.6 mm	0.8 mm	1.0 mm	拉力 Tensile Force (N)	2.5N		5N		10N	测量电容器应无接触不良、LC超 0.2CV值或500μA中的任一较大值、开路或短路现象， 且无可见的机械损伤。 The capacitor under test must not exhibit poor contact or an LC value exceeding 0.2 CV or 500 μA. It must also show no signs of an open circuit or short circuit, and no visible mechanical damage.
引线直径 Diameter Φ	0.45 mm	0.5 mm	0.6 mm	0.8 mm	1.0 mm																						
拉力 Tensile Force (N)	5N		10N		25N																						
引线直径 Diameter Φ	0.45 mm	0.5 mm	0.6 mm	0.8 mm	1.0 mm																						
拉力 Tensile Force (N)	2.5N		5N		10N																						
6.2.9	高温储存 High temperature storage	电容在105℃±2℃下放置1000小时后， 需在室温下放置2小时才可进行测试。 After storing the capacitor at 105 °C ± 2°C for 1,000 hours, leave it at room temperature for 2 hours before taking measurements.	容量变化： 在初始值的±10%内 Capacitance change: ±10% of the initial value. 损失角： 小于规格值的150% tan δ≤ 150% of the initial specified value. 等效串联电阻≤规格值的150% ESR≤ 150% of the initial specified value. 漏电流≤0.2CV值或500μA中的任一个较大值 Leakage current≤ 0.2CV or 500μA, whichever is greater.																								

备注 REMARKS

当产生疑问的时候, 请用以下通电处理后复判.

If you have any doubts, perform the power-on test and then reevaluate the results.

通电处理：在105℃下，连续加载额定电压于电容器120分钟。

Power-on test: Apply the rated voltage to the capacitor continuously at 105°C for 120 minutes.

需在室温下放置2小时才可进行测试

The capacitor must be left at room temperature for 2 hours before measurement.

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S	PZ	1D	M	271	F11	O00	R	EX18
								特殊编码 Special code(7.9)
								奈印编码 Marking code(7.8)
								成型方式编码 Terminal code(7.7)
								尺寸编码 Size code(7.6)
								电容量编码 Capacitance Code(7.5)
								电容公差 Capacitance tolerance Code(7.4)
								电压编码 Voltage Code(7.3)
								系列编码 Series Code(7.2)
								类别编码 Category Code(7.1)

编码Code	S
类别编码Category Code	固态电容Solid Capacitor

编码Code	PZ
系列编码Series Code	PZ

编码Code	0E	0J	0C	0A	1A	1C	1D	1E	1S	1V	1H	1J	1B	1K
电压编码Voltage Code(W.V)	2.5	6.3	6.8	7.5	10	16	20	25	30	35	50	63	80	100

“M”代表 -20 % ~ +20 % “M” stands for -20 % ~ +20 %

编码Code	100	220	270	330	470	560	680	820	101	121	151	181	221
电容量Capacitance (uF)	10	22	27	33	47	56	68	82	100	120	150	180	220
编码Code	271	331	391	471	561	681	821	102	122	152	182	222	272
电容量Capacitance (uF)	270	330	390	470	560	680	820	1000	1200	1500	1800	2200	2700

编码Code	D07	D08	D09	D10	D11	B08	B09	B10	B11	B14	B16	E07	E08	E09	E10
直径D (Φ)	5	5	5	5	5	5.5	5.5	5.5	5.5	5.5	5.5	6.3	6.3	6.3	6.3
高度L (mm)	7	8	9	10	11	8	9	10	11	14	16	7	8	9	10
编码Code	E11	E14	E16	F09	F11	F12	F14	F17	F20	G10	G12	G13	G16	G18	G23
直径D (Φ)	6.3	6.3	6.3	8	8	8	8	8	8	10	10	10	10	10	10
高度L (mm)	11	14	16	9	11	12	14	17	20	10	12	13	16	18	23

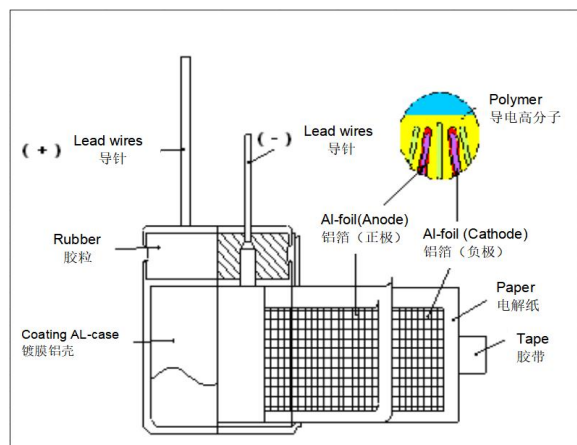
编码Code	O00	C35	P35	C48
其他 Other	平豆散装 Platform rubber& Inbulk	平豆剪脚 Platform rubber & Lead Cut3.5±0.3mm	平豆编带 Platform rubber& Taping	平豆剪脚 Platform rubber& Lead Cut4.8±0.3mm

编码Code	S	R
捺印Marking	天蓝Sky blue	红色Red

“EX18” 代表ESR特殊 (ESR最大值为18mΩ), “EX18” stands for special ESR(ESR max is 18mΩ)

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8. 结构Structure



导针:固体镀锡铜包钢线

Outer lead wire: Tinned copper-clad steel

导针端子：高纯铝

Inner lead: High-purity aluminum

电解纸：马尼拉麻

Electrolytic paper: Manila hemp

铝箔（正极）：高纯铝

Al-foil(Anode): High-purity aluminum

铝箔（负极）：碳箔、高纯铝

Al-foil(Cathode): Carbon foil、high-purity aluminum

镀膜铝壳：铝+镀膜（耐压400V以上）

Coated AL-case: Aluminum+coating(withstand voltage > 400V)

胶带: 聚酯

Tape: Polyester

胶粒: (树脂)压缩成型

Rubber: Resin (compression molding)

导针和圆柱端子通过焊接连接在一起

The lead wire and inner cylindrical section are welded together.

导针扁平端子与铝箔通过钉接连在一起

The inner cylindrical terminal section has been flattened and stitched to the aluminium foil.

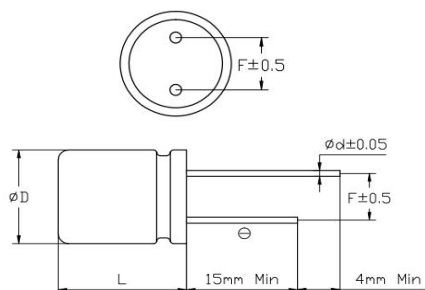
卷绕的素子外部以阴极箔包裹

The outer part of the inner element is wrapped in cathode foil.

导电高分子用作电解质

The electrolyte is the conductive polymer.

9.尺寸图Outer Dimensions (单位Unit: mm)



尺寸编码 Size Code	ΦD (mm)	ΦD(mm) Tolerance	L (mm)	L (mm) Tolerance	F (mm)	Φd (mm)
F11	8.0	-0.1~+0.5	11	-1~+0.5	3.5	0.6

10. 特性表格Characteristic Table

序号 N o.	艾华料号 AISHI P/N	额定 工作电压 Rated Work Voltage (V.DC)	电容量 Nominal Capacitanc e 120Hz,20 °C(μF)	电容量 公差 Capacitanc e Tolerance (%)	上限温度 Upper Limit Temp (°C)	尺寸 Nominal Case Size D*L (mm)	等效 串联电阻 E.S.R 100kHz 20°C (mΩ max.)	最大漏电流 Leakage Current 20°C(μA max.) 2 Min./ W.V	损失 DF 120Hz, 20°C (% max.)	纹波电流 Ripple Current 100kHz,105 °C (mA.rms)	寿命 Load Life (Hours)
1	SPZ1DM271F11O00REX18	20	270	-20~+20	105	8*11	18	1080	12	2700	2000

11.纹波电流频率系数Frequency Coefficient for Ripple Current

频率Frequency	$120\text{Hz} \leq f < 1\text{ kHz}$	$1\text{ kHz} \leq f < 10\text{ kHz}$	$10\text{ kHz} \leq f < 100\text{ kHz}$	$100\text{ kHz} \leq f < 300\text{ kHz}$
系数Coefficient	0.05	0.3	0.7	1

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14. 操作注意事项 Operating Precautions

14.1 极性Polarity

Aishi CAP是具有正负极的固态铝电解电容，使用中不可反接，若接反，则电容会因为漏电流不断增大或短路而造成寿命缩短。

The capacitor is a solid aluminium electrolytic capacitor with positive and negative electrodes. Do not reverse the polarity when in use.

Using it with the polarity reversed may shorten its lifespan due to increased leakage current or cause a short circuit.

14.2 禁止电路Prohibited Circuits

为避免漏电流增加而带来的影响，Aishi电容器不可使用在下列电路中：

To avoid the effects of increased leakage current, the AishiCAP should not be used in the following circuits.

- 1)高阻抗电路High impedance circuit;
- 2)耦合电路Coupling circuit;
- 3)时限恒量电路Time constant circuit;
- 4) 为提高耐压而串联两个或多个电容于电路中

A circuit in which two or more capacitors are connected in series to increase the withstand voltage:

- 5) 对漏电流敏感的线路 A circuit that is sensitive to leakage current:

* 除漏电流的波动上升外，电容的使用条件如在承认书中规定的高温 and 低温，湿热和耐受性条件都会影响电容量。若电容作为时限恒量电容使用，因其对电容量的变动的敏感性，电容量的改变会造成影响。不要将其作为时限恒量电容使用，同时若因电压原因要串联多个Aishi电容，请联系湖南艾华集团股份有限公司。

In addition to fluctuations in leakage current, the operating conditions of the capacitor, such as the specified high and low temperatures, damp heat and endurance conditions, can affect its capacitance. If the capacitor is used as a time-constant capacitor, changes in capacitance may be significant due to its sensitivity to such variations. Do not use it as a time-constant capacitor.

If you need to connect multiple Aishi capacitors in series due to voltage requirements, please contact Hunan Aihua Group Co., Ltd.

6) ON-OFF电路 ON-OFF circuit.

请勿在一天内频繁开-关10000次以上的ON-OFF电路中使用本产品。用于此类电路时，请务必将电路条件等告知我们。

Do not use this product in circuits that cycle on and off more than 10,000 times a day. If you intend to use it in such a circuit, please inform us of the conditions.

14.3 过电压Overvoltage

电压若超过额定电压，即便只是一瞬间也可能造成短路

Do not apply overvoltage exceeding the rated voltage, even for an instant, as this may cause a short circuit.

14.4 快速充放电,Rapid charge and discharge

快速充放电是不合适的（为了维持高的可靠性）。若充放瞬间电流超过 10A 或 10 倍允许纹波电流超过 10A，为防止快速的充放电造成电容短路、漏电增大及容量衰减，电路中应加上一个保护电路用以分流过大的电流。

Rapid charging and discharging is not recommended for maintaining high reliability. If the instantaneous current during charging or discharging exceeds 10 A, or if the ripple current is more than ten times the permitted value, a protection circuit should be installed to divert excessive current. This will prevent short circuits, increased leakage and capacitance degradation caused by rapid charging and discharging.

14.5 焊接注意事项 Soldering Considerations

焊接条件要在承认书的规定范围内。若没有遵守承认书的条件，则电容漏电流可能急剧增加，容量衰减。

The soldering conditions must remain within the specified limits. Failure to do so may result in a sharp increase in the capacitor's leakage current, which can lead to a decline in capacitance.

使用需知

Things to note before mounting:

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(a) 已安装过的或加过电压的Aishi电容器请勿再使用。经历了周期性电性能测试的Aishi电容器不可再用。

Do not reuse Aishi capacitors that have been installed or subjected to voltage. Do not reuse Aishi capacitors that have undergone periodic electrical performance testing.

(b) Aishi电容器在储存两年后，漏电流可能会增大。使用前，请在额定电压及接1kΩ电阻的条件下充电2小时。

Aishi capacitors may exhibit increased leakage current after two years of storage. Prior to use, a 1k Ω resistor should be connected in parallel at the rated voltage, and the capacitor should be charged for 2 hours.

(c) 回流焊接Reflow soldering

插件型产品不适用于回流焊接作业 Radial-type products are not suitable for use in reflow soldering operations.

(d) Handling after soldering 焊接后处理

在这之后，不要倾斜，弯曲或扭曲Aishi电容器。After soldering, do not tilt, bend, or twist the Aishi capacitor.

不可通过抓捏Aishi电容器来移动印刷电路板。 Do not move the PCB by holding the Aishi capacitor.

堆叠印刷电路板时确保Aishi电容器没有碰触到其它电路板或部件。

When stacking PCBs, please ensure that the Aishi capacitors do not come into contact with other PCBs or components.

不可将Aishi电容器与其它物品堆放。 Avoid storing Aishi capacitors alongside other items.

14.6 使用Aishi电容器于生命保障系统The Use of Aishi Capacitors in Life-Support Systems

若使用于与人类生命有关的设备上（如空间设备、航空设备、原子设备等），请与湖南艾华集团股份有限公司详细咨询，不要使用没有湖南艾华集团股份有限公司承认文件的Aishi电容器。

In the event of the utilisation of equipment that pertains to human life (for instance, space equipment, aeronautical equipment and atomic equipment, amongst others), it is imperative to consult with Human Aihua Group Co., Ltd.

14.7 贮存Storage

1) 请将Aishi电容器储存在5-35°C、相对湿度在75%以下且无阳光直射的环境中。如条件允许，建议将其存放在包裹中。若温度在35-85°C之间，请确保储存时间不超过三个月。

Please store Aishi capacitors in an environment with a temperature between 5 and 35°C, relative humidity below 75%, and no direct sunlight. If possible, we recommend storing them in their original packaging. If the temperature is between 35 and 85°C, please ensure that the storage period does not exceed 3 months.

2) Aishi电容器请在使用前打开包装袋，并尽快用完。

Aishi capacitors should be removed from their packaging prior to use and used at the earliest opportunity.

3) 不要在有水、盐水、油及凝结状况的地方贮存Aishi电容器。

Aishi capacitors must not be stored in conditions that involve direct exposure to water, brine, oil or in a state of condensation.

4) 禁止在含有毒气体的区域放置Aishi电容器（如：硫化氢、亚硫酸、亚硝酸、氯气、氨水等）。

Aishi capacitors must not be stored in areas where there are poisonous gases, including hydrogen sulfide, sulfurous acid, nitrous acid, chlorine and ammonia.

5) 禁止在有紫外线或放射性辐射的区域放置Aishi电容器。

Aishi capacitors must not be placed in areas exposed to ultraviolet or radioactive radiation.

6) 存储时间Storage period

开封前: 制造后24个月内 Before opening: Within 24 months from the manufacturing date.

开封后: 打开后1月内 After opening: Within 1 month from the opening date.

存放时间超过3年的电解电容器应报废处理 In instances where storage duration exceeds three years, the products must be discarded.

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