<u>承認書編號 NO: SFAK2-2008000001</u>









APPROVAL SHEET

FOR AL. ELECTROLYTIC CAPACITORS

承認 APPROVED BY:

料號 (Customer)	料號 (CapXon)	規格 Description $D \varphi * L$		加工形式 (mm)
	KF471M050I200A	470µF/50V	13X20	А

簽認後,請送回一份。

PLEASE RETURN US ONE COPY YOUR SIGNED SPECIFICATION AFTER YOU APPROVED OF IT.





豐 賓 電 子 (深 圳) 有 限 公 司 CAPXON ELECTRONIC (SHEN ZHEN) CO., LTD 廣東省深圳市光明新區公明鎮塘尾村 TANG WEI VILLAGE, GONG MING COUNTYGUANG MING HSIEN, SHEN ZHEN CITY, CHINA TEL:86-755-27177888 FAX:86-755-27177802



CAPXON ELECTRONIC (SHEN ZHEN) CO., LTD

				FOR	APPR	ROVAL					
Aluminum Electrolytic Capacitors KF Type											
1.Electric Characteris	stics					pe					
CAPXON P/N	Cap. (μF)	Cap Tol. (%)	Rate W.V (VDC)	Surge Volt (VDC)	Max. D.F (%)	Ripple Current 100kHz /105°C (mA)	Max.LC (μA)	Max.IM. 100kHz /20°C (Ω)	Oper. Temp. (°C)	Case Size DΦ*L (mm)	Endurance /105°C (Hrs)
KF471M050I200A	470	-20~20	50	58	9	1590	235	0.055	-40~105	13X20	5000
2.Diagram of Dimens —(sions (U	PET :	Sleeve	L ±1.5	13 20 5 0.6	Rubber e	▪ ⊕ ∽ €			-	

Part Number Explain

Series	Сар	Tol.	Voltage	Case D	Case L	Туре	Lead Treatm.	Special
KF	471	М	050	I	200	Α		
	=470µF	=-20~20%	=50V	=13mm	=20mm			
1								

一. 注意事项 Information

lapXon

1. 最大均方根纹波电流 Maximum RMS ripple current

1.1.最大均方根纹波电流值是指+105°C 100kHz 测试值。

Maximum RMS ripples current at +105°C, 100kHz

1.2. 当电容器的使用温度及频率不是+105°C, 100kHz 时,该纹波电流值须乘附表 3 所示的系数进行换算。

When capacitors are operated at temperatures other than +105 $^{\circ}$ C, and frequency other than 100kHz the maximum RMS ripple currents must be multiplied by the factors shown in table 3.

1.3 当频率与上面规定条件不同时,纹波电流不能超过允许纹波电流值乘以上表系数所得值。纹波电流验证方法参照 JIS-C-5101-1(2010) No.: 4.23.

When frequency is different from specified condition shown as above, do not exceed the value obtained by multiplying the permissible maximum ripple current by the multiplier above. The ripples current verify methods according to JIS-C-5101-1(2010) No.: 4.23.

☆注意:(1).纹波电流要对应工作频率 Ripple current corrected with working frequency.

(2)当电路中纹波电流很难测量时,电容器自身的温升应在5℃以内。

Check the generated heat of capacitor when ripple current is hard to measure in the circuit. Promoted temperature by self-generating heat should be within 5° C.

2.工作电压 Working Voltage (WV)

电容器的应用电压要保证不可过压(也就是高于额定电压)。

Make sure that no excess voltage (that is, higher than the rated voltage) is applied to capacitor. Please pay attention so that the peak voltage, which is DC voltage, overlapped by ripple current, will not exceed the rated voltage.

3.绝缘性 Insulating

铝电解电容器普通品表面套有乙烯基或类似材料的套管,这种套管一般是用来标示的。如果铝壳需要绝缘,建议采用为绝缘 设计的特殊类型的电容器。

General types of aluminum electrolytic capacitors are covered with a vinyl sleeve or the like. And this Sleeve is used for marking. When the internal element or the container is needed to be insulated, capacitors specially designed for insulation requirement are recommended to be used.

4.焊锡 Soldering

4.1 在将各种元器件焊接在 PC 板上时,过高的焊接温度或是过长的焊接时间都会引起套管二次收缩,导致破洞,并且必须 在 PC 板的反面进行焊锡。

When soldering a PC board with various components, too high soldering temperature or too long dipping time may cause secondary shrinking of the sleeve and then the container unnecessarily exposed. The soldering must be done on the reverse of PC board.

4.2 如果套管与电路板接触,在焊锡时可能熔化或损坏套管,因此建议电容器与电路板保持一定的距离。

Soldering may melt or break the sleeve when the sleeve is contacted with circuit boards. So the capacitors are recommended to be slightly apart from the circuit boards.

5.防爆 Vent

电容器(Φ≥10mm)在铝壳底部设置了一个防爆装置,当误操作时防爆阀会打开以释放内部较高的压力。

The capacitor ($\Phi \ge 10$ mm) is provided with a safety vent on the bottom of the container. The vent would rupture in the event of the unsafe usage or misusage to relieve the internal higher pressure.

6.高海拔 High Altitude

该电容器可以在-40~105℃的温度环境和 200,000 英尺的海拔高度运输。

The capacitors can withstand those transportation conditions that temperature may range from -40~105 $^\circ\!C$ and the altitude can reach 200,000 feet.

7.清洗剂 Cleaning agents:

如果用含卤元素的有机溶剂清洗电容器,溶剂可能会渗入电容内部导致腐蚀。

If the capacitor is cleaned in halogenated agents for organic removing solder flux solvent, the agents may penetrate into the inside of capacitor, and may generate corrosion.

8.环保方针 Environment-friendly policy

本公司依蒙特利尔协议书之规定,于生产过程中不使用破坏臭氧层之药品。在电容器生产的整个制程中,包括生产、包装、存储和运输,我司始终遵守环保和 ROHS 的相关法律法规。

None of ozone depleting chemicals (ODC) under the Montreal Protocol is used in manufacturing process of CapXon Electronic industrial CO., Ltd. In the entire process of capacitor's production, including manufacture, packaging, storage and transportation, our company always complies with the related Environmental Protection Laws and Regulations of RoHS.

9. 本公司品质量依 JIS-C-5101-1 标准考核, 其信性试验方法依 JIS-5101-4(非 SMD 液态), -18 (液态 SMD) 之规范为基准。 CapXon's Products meet or exceed quality standards specified by JIS-C5101-1 Wand with reliability Requirements refer to JIS-C-5101-4(non-SMD liquid capacitor),-18(liquid SMD capacitor).

二. 技术性能 Technical Feature

测试环境 Testing Environment:

方案 Precept 环境条件 Condition	无特别规定及判定无疑问 No special regulation and judgment doubt	无特别规定而判定有疑问 No special regulation but have judgment doubt	在标准室内测试仍有争议 Under the standard room testing but have dispute	
温度 Temperature	15∼35℃	25±10 ℃	20±1 ℃	
湿度 Humidity	25~75%RH	40 \sim 60%RH	63~67%RH	
气压 Air pressure	86KPa~106KPa	86KPa~106KPa	86KPa \sim 106KPa	

序号 NO.	试验项目 Item	实验条件及判定 Conditions and Criterion
1	工作温度范围 Range of working temperature	-40~105 (°C)
2	电容容量 Capacitance	实验条件 Conditions:测量温度 Temperature:20±2℃测量频率 Frequency:120Hz测量电压 Voltage:0.5Vrms判定标准 Criterion:-20~20%
3	损耗角正切 Dissipation factor (tanδ)	实验条件 Conditions: 测量温度 Temperature: 20±2℃ 测量频率 Frequency: 120Hz 测量电压 Voltage: 0.5Vrms 判定标准 Criterion: See Table 1
4	漏电流 Leakage Current	实验条件 Conditions: 将额定电压加在电容和 1000Ω±10% 的保护电阻上充电 2 分钟后测试。 The rated voltage shall be applied across the capacitors and its protective resistor which shall be 1000Ω±10%.The leakage current shall then be measured after an electrification period of 2 min. 判定标准 Criterion: I≤ 235 (µA)



5 安装業件 Conditions: 治域防光環境 Emails eterging to itermination: 治域防光環境 Emails eterging to itermination: 治域防光環境 Emails eterging to itermination: 治域防火環境 eterging (10%) A static load of N shall be applied to the termination iter down-lead direction for 10±1S. 5 万式煤炭 0.35 千式 校 (10%) (1.10%) (1.10%) 0.35 400 N 1.00%1 (1.10%) 0.35 400 N 1.00%1 (1.10%) 0.410(%) (1.10%) (1.10%) (1.10%) 0.35 400 N 1.00%1 (1.10%) 0.410(%) (1.10%) (1.10%) (1.10%) 0.410(%) (1.10%) (1.10%) (1.10%) 0.410(%) (1.10%1) (1.10%1) (1.10%1) 0.410(%) (1.10%1) (1.10%1) (1.10%1) 1.410(%) (1.10%1) (1.10%1) (1.10%1) 2.410(%) (1.10%1) (1.10%1) (1.10%1) 3.410(%1) (1.10%1) (1.10%1) (1.10%1) 3.410(%1) (1.10%1) (1.10%1) (1.10%1) 3.410(%1) (1.10%1) (1.10%1) (1.10%1)	r									
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6 温度特性 Temperature characteristic 0.8 0.8 10N 10N 6 温度特性 Temperature characteristic 第二日 (1) 20A 20N 20N 6 温度特性 Temperature characteristic 第二日 (1) 20上2℃ 照抗 Impedance 2 Lower Category temperature ±3°C 照抗 Impedance 2 Lower Category temperature ±3°C 福电 LC 要求达到热平衡市測量式,并且阻抗在同一频率下測式 Testing when thermal equilibrium and Impedance must be on the same frequency. 利定確靠了的差確。Criterion: 1.1.1.抗比不能超出表2 形方:倍: Impedance ratio shall not exceed the values shown in Table 2. 2.1.2800%的游艇格值 7 指動 実驗条件 Conditions: 実驗溫度 Temperature : 105℃ isome Kapiled voltage: Rated DC working voltage 实验时间 Test ime : 5000 H 测试条件 Test condition : Test after keep on standard atmospheric conditions for 16 hours. 利定标准 Citerion: 1.24545.20% di påte Capacitance Change Rate: △C/C 5±20% of initial value 2.指耗和工时; DF 5200% Mg&值 Dissipation Factor: DF 5200% Mg&值 Dissipation Factor: DF 5200% of specified value 3.漏电流; LC 5gR&值 Leakage Current: LC SspEcified value. 4.外规 光明显频为										
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6 基度特性 Temperature characteristic 夢察 起度 Temperature characteristic 夢察 上 0 2012 C 上 0 2012 C 里来达到热平衡后测量,并且阻抗在同一频率下测试 Testing when thermal equilibrium and Impedance must be on the same frequency. 为定标准 Criterion: 1. 阻抗比不能超出表 2 所示值: Impedance ratio shall not exceed the values shown in Table 2. 2. LCS800%初始规格值 2. Leakage current Shall not more than800% of initial specified value. 7 K main LK High temperature load 实验条件 Conditions: 实验量加度 Temperature : 105°C 施加电压 Applied voltage: Rated DC working voltage ys&pt问 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 为定标准 Criterion: 1.容量的变化: △C/C s±20% 初始值 Capacitance Change Rate: △C/C s±20% of initial value 2. 過載格面 : D s s200% 极格值 Dissipation Factor: D f s200% of specified value 3. 圖电流: LC s规格值 Leakage Current: LC septiced value. 4.外型、式明显频格										
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6 溫度特性 Temperature characteristic 2 下限类别温度 Lower Category temperature ±3°C 阻抗 Impedance 3 Upper Category temperature ±2°C 漏电 LC 要求达到热平衡后测量,并且阻抗在同一频率下测试 Testing when thermal equilibrium and Impedance must be on the same frequency. 判定标准 Criterion: .I.阻抗比不能超出表 2 所示值: Impedance ratio shall not exceed the values shown in Table 2. 2.LC≤800%初始规格值 2 Leakage current Shall not more than800% of initial specified value. ず驗鉴条件 Conditions: 实验温度 Temperature : 105℃ 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 判定标准 Criterion: 1.窄量的零化、△C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC <规格值 Leakage Current LC Sspecified value.				2010	20	阳拉Impedance	-			
6 温度特性 Temperature characteristic 2 Lower Category temperature ±3°C 回北 Impedance 3 Upper Category temperature ±3°C 漏电 LC 3 Upper Category temperature ±2°C 漏电 LC 要求达到热平衡后测量,并且阻抗在同一频率下测试 Testing when thermal equilibrium and Impedance must be on the same frequency. 判定标准 Criterion: 1.1.照抗比不能超出表 2 所示值: Impedance ratio shall not exceed the values shown in Table 2. 2.LC≤800%初始规格值 2.Leakage current Shall not more than800% of initial specified value. 7 將面載負荷 Fight temperature load 実验条件 Conditions: 实验温度 Temperature ± 105℃ 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time ± 5000 H 7 將面離在行業 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% 初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.振耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% dof initial value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 3 Upper Category temperature. 4.外观: 无明显损伤			1	20±2	C	阳机 impedance				
6 温度特性 Temperature characteristic 1 Lower Category temperature ±3°C 通电LC 3 Upper Category temperature ±2°C 漏电LC 要求达到熱平衡后测量,并且阻抗在同一频率下测试 Testing when thermal equilibrium and Impedance must be on the same frequency. 判定标准 Criterion: 1.阻抗比不能超出表 2 所示值: Impedance ratio shall not exceed the values shown in Table 2. 2.LCS800%初始规格值 2 Leakage current Shall not more than800% of initial specified value. 7 廣溫負荷 High temperature load 実验条件 Conditions: 实验温度 Temperature : 105℃ 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 7 指頭 temperature load 1.容量的变化: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.濁电流: LC ≤规格值 Leakage Current; LC ≤specified value. 3 Lower Category temperature. 1.2500% 3 Lower Category temperature. 1.2500% 4 外观: 无时显频伤 1.2500%			2	下限类别	间温度	阳右 Impedance				
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7 高温负荷 High temperature load 実验条件 Conditions: 实验温度 Temperature : 105℃ 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 7 Apple Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 7 Apple 标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤										
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7 实验温度 Temperature : 105℃ 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 判定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤			实验条件 Conditione.							
7 施加电压 Applied voltage: Rated DC working voltage 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 判定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤				<u>م</u> . 105℃	'n					
7 高温负荷 High temperature load 实验时间 Test time : 5000 H 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 9 川定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤										
7 高温负荷 High temperature load 测试条件 Test condition : 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. 9 川定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤										
7 高温负荷 High temperature load Test after keep on standard atmospheric conditions for 16 hours. 9 月定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤										
7 ^{前温贝何} High temperature load 判定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤			测试条件 Test condition							
7 High temperature load 判定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤		高温负荷	det a statistica e construction de la seconda de	Test aft	er keep on standard	atmospheric conditions for	r 16 hours.			
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Dissipation Factor: DF ≤200% of specified value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观:无明显损伤					C ≤±20% of initial va	lue				
3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观:无明显损伤										
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Leakage Current: LC ≤specified value. 4.外观:无明显损伤										
4.外观:无明显损伤					alue.					
				le damage.						
				-						



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8	高温储存 High Temperature Exposure(Storage)	实验条件 Conditions: 实验温度 Temperature: 105℃ 施加电压 Applied voltage: None 实验时间 Test time: 1000H 测试条件 Test condition: 在标准大气压下保存 16 小时后进行测试 Test after keep on standard atmospheric conditions for 16 hours. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes. 判定标准 Criterion: 1.容量的变化: △C/C ≤±20%初始值 Capacitance Change Rate: △C/C ≤±20% of initial value 2.损耗角正切: DF ≤200%规格值 Dissipation Factor: DF ≤200% of specified value. 3.漏电流: LC ≤规格值 Leakage Current: LC ≤specified value. 4.外观: 无明显损伤 Appearance: No visible damage
9	浪涌试验 Surge Test	 实验条件 Conditions: 实验温度 Temperature: 15~35℃ 施加电压 Applied voltage: 58V 周期 Period: 充电 30 秒,放电 330 秒为一个周期。 Charge for 30 seconds, discharge for 330 seconds as a cycle 循环次数 Cycles: 1000 测试条件 Test Condition: 在标准大气压下保存 16 小时后进行测试。 Test after keep on standard atmospheric conditions for 16 hours. 判定标准 Criterion: 1.容量的变化: △C/C ≤±15%初始值 Capacitance Change Rate: △C/C ≤±15% of initial value 2.损耗角正切: DF ≤规格值 Dissipation Factor: DF ≤ Original Spec value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤original Spec value 4. 外观: 无明显损伤 Appearance: No visible damage
10	振动 Vibration	实验条件 Conditions: 频率范围 Frequency Scope : 10~55HZ 振幅 Amplitude : 0.75mm 加速度 Acceleration : 98 m/s ² (10g) 振动时间 Vibration Time : X、Y、Z 各方向循环各 2 小时、共计 6 小时 X、Y、Z directions each for 2 Hrs, total 6 Hrs. 测试条件 Test Condition : 从振动仪上取下电容后在 30 分钟内测试 Testing within 30 minutes after take it down from vibration machine 判定标准 Criterion: 1.容量的变化: $\triangle C/C \leq \pm 5\%$ 初始值 Capacitance Change Rate: $\triangle C/C \leq \pm 5\%$ of initial value 2.损耗角正切: DF <规格值 Dissipation Factor: DF ≤ Original Spec value 3.漏电流: LC <规格值 Leakage Current: LC ≤original Spec value 4. 外观: 无明显损伤 Appearance: No visible damage



11	可焊性 Solderability	实验条件 Conditions: 焊锡种类 Kind of solder: Sn: 96.5%, Sn: 96.5%, Ag: 3%, Cu: 0.5% or 锡炉温度 Solder stove temperature: 2 浸锡时间 Immerse time: 2.0±0.5S 浸入或移出速度 Speed of immerse or 浸入深度 Immerse depth: 浸入深度係 1.5~2.0mm between the capacitor bo 试验次数 times: 1. 测试条件 Test Condition: 从锡炉中取 Testing after 2 hours for taking it out f 判定标准 Criterion: 新锡附着度应大于 95%。 Above 95% area of surroundings surf	r equal article 245±5℃ e leave: 25±2.5mm/s 计存在电容本体与焊锁 idy and the solder. 出后 2 小时测试。 from the solder stove	之间距离在 1.5			
12	耐焊接热 Resistance to soldering heat	实验条件 Conditions: 焊锡种类 Kind of solder: Sn: 96.5%, Ag: 3%, Cu: 0.5%或是同等品。 Sn: 96.5%, Ag: 3%, Cu: 0.5% or equal article 锡炉温度 Solder stove temperature: 260 (0~3) °C 浸锡时间 Immerse time: 10±1S 浸入或移出速度 Speed of immerse or leave: 25±2.5mm/s 浸入深度 Immerse depth: 浸入深度保持在电容本体与焊锡之间距离在 1.5~2.0mm。 1.5~2.0mm between the capacitor body and the solder. 试验次数 times: 1. 测试条件 Test Condition: 从锡炉中取出后 2 小时测试。 Testing after 2 hours for taking it out from the solder stove. 判定标准 Criterion: 1.容量的变化: △C/C ≤±5%初始值 Capacitance Change Rate: △C/C ≤±5% of initial value 2.损耗角正切: DF ≤规格值 Dissipation Factor: DF ≤ Original Spec value 3.漏电流: LC ≤规格值 Leakage Current: LC ≤original Spec value					
13	防爆试验 Vent (仅适用于有防爆 要求产品)	实验条件 Conditions: 试验方法 Method 逆向电压法:电容两端施加直流反 向电压 80V。 Reverse Voltage:80V 过压法:两端施加过电压(工作电 压的 1.5 倍) Over Voltage:1.5Rated voltage 逆向电压法:电容两端施加直流反 向电压 80V。 Reverse Voltage:80V 判定标准 Criterion: 当防爆阀打开时,不能有爆炸、闪火、 When the pressure relief vent operat fire from the capacitor during or after 如果防爆阀 30 分钟未打开,判定防爆 If the vent does not operate with the be passed only for the method of over	ted, There shall be n the test. 合格,仅适用于过压治 voltage applied for 30	Ę.	· · ·		

CapXon

		实验条件 Conditio	ns:				
		阶段 Step	温度 Temp.	时间 Time (Min)			
		1	下限类别温度±3℃	30±3			
		2	25±5 ℃	3			
		3	上限类别温度 ±2 ℃	30±3			
		4	25±5 ℃	3			
	温度循环		1 (2010) No:4.16,从 1 到 4 为一个 IC-5101-1 (2010) No:4.16 (1) to (4)				
14	Temperature Cycling	2.损耗角正切:DF Dissipation Factor 3.漏电流:LC ≤规	C/C ≤±5%初始值 nge Rate: △C/C ≤±5% of initial val ⁼ ≤规格值 :: DF ≤ Original Spec value 格值 LC ≤original Spec value 员伤	Rate: △C/C ≤±5% of initial value 格值 ≤ Original Spec value original Spec value			
15	稳态湿热 High temp and humidity	Test after keep on 判定标准 Criterion 1.容量的变化: △ Capacitance Char △C/C ≤±10% of in 2.损耗角正切: DF Dissipation Factor 3.漏电流: LC ≤规	: 40±2℃ ~95%RH ned Time: 500H ndition: 在标准大气压下保存 16 小时 standard atmospheric conditions fo :: C/C ≤±10%初始值 nge Rate: nitial value 5 ≤1.2 倍规格值 :: DF ≤ 1.2 times of the original Spec 格值 LC ≤original Spec value 员伤	or 16 hours.			

三. 标示说明 MARKING:

例:

(1) CapXon:	制造商标 Brand		
(2) 50V:	电压 Rated Voltage		CapXon
(3) 470 µ F :	容量 Nominal Capacitance	正面 Front:	470uF 50V
(4) $-\sum_{i}$: (-)负极指示 Polarity(Cathode Indicate)		$\rightarrow \rightarrow \rightarrow$
(5) 105℃ :	最高工作温度(Maximum Operating Temp.)		
(6) KF :	系列 Series	背面 Back:	KF 105℃
(7) P1502 :	生产周期 Date Code		P1502 VENT
	(P:PET,15:2015年Year; 02:第2周Week)		VENT
(8) VENT:	安全标示 Safety Vent(D5~D6.3 无 VENT)		



四. CHARACTERISTICS TABLE

1. 损失角 DF Dissipation Factor (表 1 TABL
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Rated Voltage(VDC)	6.3	10	16	25	35	50	63	100
D.F. (%)max.	18	16	14	12	10	9	8	8

Rated Voltage(VDC)	160	200	250	350	400	420	450
D.F. (%)max.	12	12	12	15	15	17	17

For capacitance $>1000 \ \mu$ F,add 2% per another 1000 μ F

2. 阻抗比值表 (表 2. TABLE 2)

Impedance ratio max

Rated Voltage(VDC)	6.3	10	16	25	35	50	63	100
Z-25 ℃ / Z+20 ℃	4	3	3	3	3	3	2	2
Z-40 ℃ / Z+20 ℃	8	6	4	3	3	3	3	3

Rated Voltage(VDC)	160	200	250	350	400	450
Z-25℃ / Z+20℃	2	2	3	5	5	6
Z-40℃ / Z+20℃	3	6	6	6	6	-

For capacitance $>1000 \ \mu$ F,add 0.5 per another $1000 \ \mu$ F for -25 °C/+20 °C add 1 per another 1000 μ F for -40 $^\circ\!C/\text{+20}\,^\circ\!C$

3. 频率系数表(表 3 TABLE 3)

Multiplier for Ripple Current vs. Frequency:

CAP(µF) / Frequency(Hz)	50(60)	120	400	1K	10K	50K~100K
CAP≦10	0.47	0.59	0.76	0.85	0.97	1.0
10 <cap≦100< td=""><td>0.52</td><td>0.62</td><td>0.80</td><td>0.89</td><td>0.97</td><td>1.0</td></cap≦100<>	0.52	0.62	0.80	0.89	0.97	1.0
100 <cap≦1000< td=""><td>0.58</td><td>0.72</td><td>0.84</td><td>0.90</td><td>0.98</td><td>1.0</td></cap≦1000<>	0.58	0.72	0.84	0.90	0.98	1.0
1000 <cap< td=""><td>0.63</td><td>0.78</td><td>0.87</td><td>0.91</td><td>0.98</td><td>1.0</td></cap<>	0.63	0.78	0.87	0.91	0.98	1.0

- 1. Specification and description for the component(s) are subject to change without notice.
- Operation conditions (ambient temperature, ripple current, thermal resistance, etc.) may affect the lifetime of a capacitor, please consult Capxon for lifetime calculation in your application.
 For aerospace or military application and for life-saving or life-sustaining applications please consult us before design-in in your application.
 Under no circumstance, Capxon warrants that any Capxon product is suitable for the purposes intended for your application, even Capxon knows the application.

6. Further information please read our technical information in our web site: <u>www.capxongroup.com</u>

It is buyer's duty and obligation to check and make sure that Capxon's products are suitable for the purposes intended and select the correct and proper Capxon product.
 Except for the written express warranties, Capxon DO NOT, impliedly, by assumption or whatever else, warrant, undertake, promise any other warranty or guaranty for capxon's Products.