

APPROVAL SHEET

Customer:

Customer Part NO.

Part NO.

HZ450M391P300C97PCYT

Item:

390uF/450V

Catalog Series:

HZ Series

Date of Issue:

MAR.12.2026

Approved NO. :

SD20260300390

BUYER'S STAMP	Approved by			

Su' scon	Submitted by			
	Approval	Check	Affirm	Design
				

Su' scon



DONG GUAN HEYUE ELECTRONIC CO., LTD

TEL:0769-8308 6886

FAX:0769-8308 6886

Mail : sales016@heyuecap.com

Halogen
Free
RoHS COMPLIANT
Environmental-Benefit Products

RECORD OF REVISION					
NO.	VERSION	REASON	DATE	CHECKED	REMARKS
1	A00	First Release	2026.03.12	劉冬冬	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

HZ Specification For Approval

NO.	Customer Part No.	Specification	<i>Su' scon</i> Part No.
1		EC,390uF/450V	HZ450M391P300C97PCYT
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Explanation of Parts Numbers

1	2
H	Z

[Series]

3	4	5
4	5	0

[Voltage]

6
M

[Capacitance Tolerance]

7	8	9
3	9	1

[Capacitance Code]

10
P

[Diameter]

11	12
3	0

[Length]

13
0

[Special Remark]

14	15	16
C	9	7

[Customer Code]

17	18	19	20
Y	C	Y	T

[Type Code description]

T=Laser printing of Automotive products /RoHS/Free Halogen

004=4V
006=6.3V
010=10V
016=16V
025=25V
035=35V
050=50V
063=63V
080=80V
100=100V
160=160V
350=350V
400=400V
420=420V
450=450V
500=500V
180=180V
200=200V
250=250V
315=315V
330=330V

J= ±5 %
K= ±10%
M= ±20 %
A= 0 %~+20 %
S= 0 %~+40 %
R= 0 %~+50 %
D= -5 %~+20 %
V= -10 %~+20 %
Q= -10 %~+30 %
T= -10 %~+50 %
E= -15 %~+20 %
I= -30 %~+20 %
B= +10 %~+30 %
N= +10 %~+25 %
C= -5 %~+15 %
Z= -0 %~+30 %

0R1=0.1uF
1R0=1uF
100=10 uF
101=100 uF
102=1000 uF
103=10000 uF
223=22000 uF
G52=1650 uF

L=20Φ
M=22Φ
N=25Φ
Z=25.4Φ
O=30Φ
P=35Φ
Q=40Φ
W=42Φ
8=45Φ
R=51Φ
S=64Φ
T=76Φ
U=90Φ

20	20
25	25
30	30
100	A0

0

Snap-in
Screw Terminal

Length ≥100mm Code11 Ex:100,Input A0.

Code 11	Meaning
A	10
B	11
C	12
D	13
E	14
F	15
G	16
H	17
I	18
J	19
K	20
Q	21
M	22
N	31
L	35

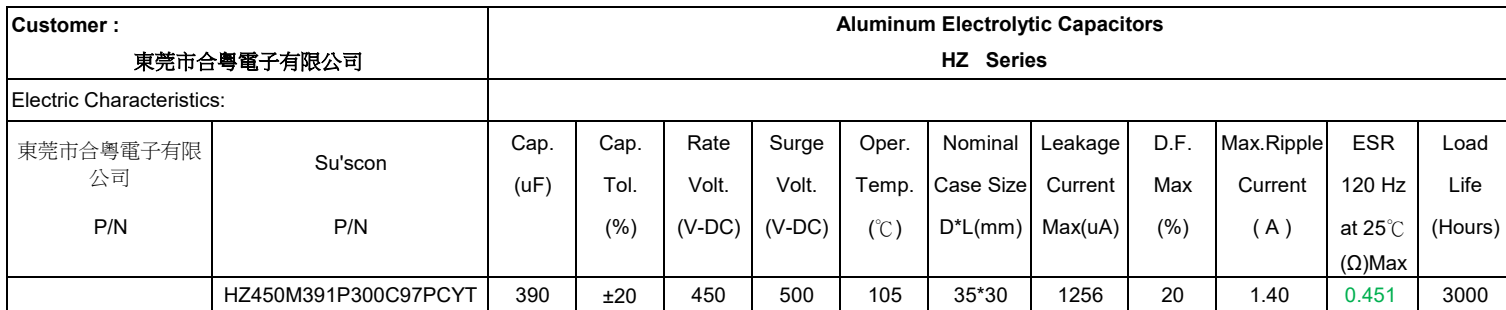
F77	Customer No.
KKK	Standard

YS0	Snap-in Short Terminal(4.0mm)
YL0	Snap-in Long Terminal(5.8mm)
YSC	Snap-in Short Terminal(4.0mm) Cu Material
YLC	Snap-in Long Terminal(5.8mm) Cu Material
PCS	PC board pin-out Straight Terminal
PCY	PC board pin-out terminal(5.8mm)
PSY	PC board pin-out terminal(4.0mm)
PCU	PC board pin-out U-insert terminal
PCB	PC board pin-out bend terminal
T00	Snap-in 3 pins Long Terminal(5.8mm)
TS0	Snap-in 3 pins Long Terminal(4.0mm)
U00	Snap-in 5 pins Long Terminal
W00	Screw Terminal
W01	Screw Terminal (with Thread stud mounting)

YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL: +86-769- 83086886
DONG GUAN CITY, GUANG DONG CHINA (P.R.O.C) FAX: +86-769- 83086886

YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL: +86-769- 83086886
DONG GUAN CITY, GUANG DONG CHINA (P.R.O.C) FAX: +86-769- 83086886

DIMENSIONS(mm)



1. Leakage Current Test:	at 20℃ for 5 minutes .
2. Operating temperature:	16V~ 250V -40℃ ~ +105℃; 350V~ 500V -25℃~ + 105℃.
3. Dissipation Factor Test:	at 20℃, 120Hz.
4. Capacitance Test:	at 20℃, 120Hz.
5. Ripple Current Test:	at 105℃, 120Hz .
6. Load Life:	3000 hours,subjected to DC voltage with the rated ripple current is applied at 105℃.
Capacitance Change:	Within ±20% of initial value;
tanδ:	200% or less of initial specified value;
Leakage Current:	Initial specified value or less;
7. Shelf Life:	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours 105℃ without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.
Capacitance Change :	Within ±15% of initial value;
tanδ:	200% or less of initial specified value;
Leakage Current:	Initial specified value or less.
8. when have characteristic requested :	Load life & shelf life test and etc. , judgment standard reference to our catalogue.

Leakage Current 洩漏電流	$I \leq 3\sqrt{CV}(\mu A)$, which is greater. (After 5 minutes application of working voltage)											
Dissipation Factor 散逸因素（損失角） (tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃											
	Rate Voltage(V)	16	25	35	50	63	80	100	160	200~250	350~500	
	tan δ (MAX)	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.15	0.20	
	When nominal capacitance over 1000μF, tanδ shall be added 0.01 to the listed value with increase of every 1000μF .											
Standards 參照標準	IEC 60384-4(JIS C-5101-4,AEC-Q200)											

Frequency coefficient of allowable ripple current					
Rated Voltage(V)	Frequency(Hz)				
	50	120	1k	10k	100k
16~100	0.88	1.00	1.05	1.10	1.15
160~250	0.85	1.00	1.20	1.30	1.50
350~500	0.88	1.00	1.20	1.25	1.40

一. Scope 適用範圍：

This specification applies to aluminium electrolytic capacitor , used in electronic equipment .

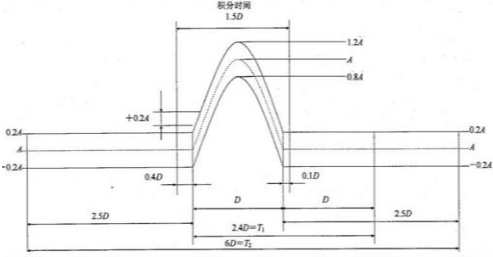
本說明對於用電子儀器設備進行檢測之鋁電解電容器 適用.

二. TABLE-TABLE OF METHODS REFERENCED ALUMINUM ELECTROLYTIC CAPACITORS

表-铝电解电容器参考方法

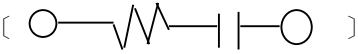
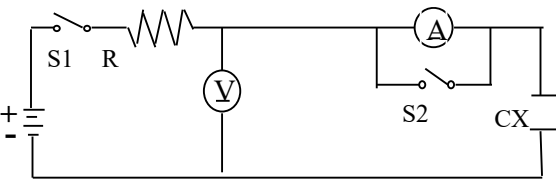
NO.	Stress 应力方式	Reference 参考方法	Additional Requirements 附加要求	SPECIFICATION 規格
1	Pre- and Post-Stress Electrical Test 应力测试 前后电气测试	User spec.用户规格	Test is performed except as specified in the applicable stress reference and the additional requirements in Table 3.需进行测试，除了适用的应力测试标准和表3中的附加要求指定之外。	In the experimental report 分布在試驗報告中
3	High Temperature Exposure (Storage) 高温存储	MIL-STD-202 Method 108	1000 hrs. at rated operating temperature (e.g. 105°C part can be stored for 1000 hrs at 105°C. Same applies for 85°C & 125°C).Unpowered. Measurement at 24±4 hours after test conclusion. 在额定工作温度下放置器件1000小时(例如:105°C的产品可以在105°C下存储1000小时，同样地也适用于85°C和125°C的产品),不通电。试验结束后24±4小时内进行测试。	Capacitance change Tan δ .Rate of change: please have a look at this eries of shelf life standard. less than specified value . Appearance : no abnormal . 容量.損失角,的變化標準:請見該系列的放置壽命說明標準。 泄漏電流: 低于初期規定值。 外觀: 無異常。
4	TemperatureCycling 温度循环	JESD22Method JA-104	1000 cycles (-40°C & -25°C to 105°C) Note: If 85°C or 125°C part the 1000 cycles will be at that temperature rating. Measurement at 24±4 hours after test conclusion. 30min maximum dwell time at each temperature extreme. 1 min. maximum transition time. 1000个循环（-40°C & -25°C到105°C）。注意：如果85°C或125°C的产品,1000个循环应在其温度等级下进行。试验结束后24±4小时内进行测试。 每个温度的停留时间不超过30分钟，转换时间不超过1分钟。	Capacitance change :within ± 20% of the initial specified value. Tan δ :200% of initial specified value . Leakage current : less than specified value . Appearance : no abnormal . 靜電容量變化:最初規定值的±20%以內。 損失角:規定值2倍， 泄漏電流:低于規定值， 外觀: 無異常。
7	Biased Humidity 高溫高濕	MIL-STD-202 Method 103	1000 hours 85°C/85%RH. Rated Voltage. Measurement at 24±4 hours after test conclusion. 在温度85°C,湿度85%的条件下放置1000小时。额定电压。试验结束后24±4小时内进行测试。	Capacitance change : within ± 20% of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value . Appearance : no abnormal . 靜電容量變化: 最初規定值的±20%以內。 損失角:低于規定值， 泄漏電流: 低于規定值， 外觀: 無異常。

NO.	Stress 应力方式	Reference 参考方法	Additional Requirements 附加要求	SPECIFICATION 規格
8	Operational Life 工作寿命	MIL-STD-202 Method 108	Note: 3000 hours @ 105°C. If 85°C or 125°C part will be tested at that temperature. Rated Voltage applied. Measurement at 24±4 hours after test conclusion. 注意：3000小时@ 105°C。如果85°C或125°C的产品，应在其温度下进行。施加额定的电压。试验结束后24±4小时内进行测试。	Capacitance change Tan δ .Rate of change:please have a look at this eries of load life standard. less than specified value . Appearance : no abnormal . 容量.損失角,的變化標準:請見該系列的負荷壽命說明標準 泄漏電流:低于初期規定值 . 外觀: 無異常 .
9	External Visual 外觀	MIL-STD-883 Method 2009	Inspect device construction, marking and workmanship. Electrical Test not required. 检查器件结构，标识和工艺质量。不要求电气测试。	In the experimental report 分布在試驗報告中
10	Physical Dimension 尺寸	JESD22Method JB-100	Verify physical dimensions to the applicable device detail specification. Note: User(s) and Suppliers spec. Electrical Test not required. 按适用的器件规格验证物理尺寸。注意：用户和供应商规格。不要求电气测试。	Do judgement, according to the specification sheet. 依據規格書判斷
11	Terminal Strength (Leaded)端子强度（引脚）	MIL-STD-202 Method 211	Test leaded device lead integrity only. Conditions: A (454 g), C (227 g), E (1.45 kg-mm) 只进行引脚器件的引脚牢固性测试。条件：A (454克)， C (227克)， E (1.45公斤-mm)。	Capacitance change :within ± 5% of the initial specified value. Tan δ :less than specified value. Leakage current : less than specified value . 靜電容量變化：最初規定值的± 5%以內. 損失角：低于規定值 . 泄漏電流：低于規定值 .

NO.	Stress 应力方式	Reference 参考方法	Additional Requirements 附加要求	SPECIFICATION 規格
12	Resistance to Solvents 溶剂抵抗	MIL-STD-202 Method 215	Note: Also aqueous wash chemical - OKEM clean or equivalent. Do not use banned solvents. 注意：水洗清洗剂-OKEM清洗剂或其它相同的溶剂。不要使用禁止的溶剂。	Capacitance change :within $\pm 5\%$ of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value , Appearance : Print without loss, appearance without exception 靜電容量變化:最初規定值的$\pm 5\%$以內. 損失角: 低於規定值 . 泄漏電流: 低於規定值, 外觀:印刷字体无脱落及外观无异常
13	Mechanical Shock 机械冲击	MIL-STD-202Method 213	Figure 1 of Method 213. Condition C 方法213图表1，条件C。 	Capacitance change : within $\pm 5\%$ of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value . Appearance : no abnormal . 靜電容量變化：最初規定值的$\pm 5\%$以內. 損失角:低於規定值， 泄漏電流:低於規定值， 外觀：無異常。
14	Vibration 振动	MIL-STD-202Method 204	5g's for 20 minutes 12 cycles each of 3orientations. Note: Use 8"X5" PCB .031" thick with 7 secure points on one 8" side and 2 secure points on corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz. 5G 20分钟，三个方向每个方向12个循环。注意：使用8"X5" 印刷线路板，.031" 厚，在长的一边有7个固定点，在对面的边的角有2个固定点。产品在距离固定点2"内安装。测试频率从10-2000赫兹。	Capacitance change : within $\pm 5\%$ of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value , No damage or leakage of electrolyte . 靜電容量變化:最初規定值的$\pm 5\%$以內. 損失角: 低於規定值 . 泄漏電流: 低於規定值， 無損傷或電解液漏出。
15	Resistance to Soldering Heat 抗焊接热	MIL-STD-202 Method 210	Condition B no pre-heat of samples. Note: Single Wave Solder. Procedure 1 with solder within 1.5mm of device body for Leaded and 0.75mm for SMD. SMD – remove carrier. 条件B，样品不进行预热。注意：单一波峰焊。按程序1焊接，对于引脚器件浸入器件本体的1.5mm的深度，对于表面贴装元件为0.75mm。表面贴装元件-去除载体。	Capacitance change : within $\pm 10\%$ of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value . 靜電容量變化: 最初規定值的$\pm 10\%$以內. 損失角:低於規定值 . 泄漏電流:低於規定值。

NO.	Stress 应力方式	Reference 参考方法	Additional Requirements 附加要求	SPECIFICATION 規格
18	Solderability 可焊性	J-STD-002	For both Leaded & SMD. Electrical Test not required. Magnification 50 X. Conditions: Leaded: Method A @ 235°C, category 3. SMD: a) Method B, 4 hrs @ 155°C dry heat @235°C b)Method B @ 215°C category 3 c)Method D category 3 @ 260°C. 用于引脚和表面贴装元件，不需要电气测试。放大倍数50倍。测试条件： 引脚产品：方法A@235°C，类别3。 表面贴装元件：a) 方法B, 4 小时@155°C 干热@235°C b)方法B @215°C 类别3。 c)方法D 类别3 @260°C	The solder alloy shall cover the 95% or more of the dipped lead's area . 錫液要覆蓋導針浸入表面積 的 95% 以上 .
19	Electrical Characterization 电气特性	User Spec.用户规格	Parametrically test per lot and sample size requirements, summary to show Min, Max, Mean and Standard deviation at room as well as Min and Max operating temperatures. 按批次和样品数量要求进行参数试验，总结列出室温下及最低，最高工作温度下器件的最小值，最大值，平均值和标准偏差。	Capacitance change :within $\pm 20\%$ of the initial measured value. 靜電容量變化:最初測定值的$\pm 20\%$以內. Leakage current : 漏电流: Under 125 °C for 10 times specification values. 125°C為規格值10倍以下. 105 °C for 8 times the specification values. 105°C為規格值8倍以下, 85 °C for 5 times the specification values. 85°C為規格值5倍以下, Tan δ :less than specified value . 損失角:低于規定值 .
27	Surge Voltage 浪涌电压	JIS-C-5101-1	Rated surge voltage shall be applied (switch on) for 30 ± 5 seconds and then shall be applied (switch off) with discharge for 330 ± 5 seconds at room temperature . This cycle shall be repeated for 1000 cycles .Duration of one cycle is 6 ± 0.5 minutes . 在常溫下施加 (合上開關) 額定涌浪電壓 30 ± 5 秒, 然後停止施加 (斷開開關) 涌浪電壓並且放電 330 ± 5秒. 這個循環要重复1000次 . 以 6 ± 0.5 分鐘為一個循環周期 .	Capacitance change : within $\pm 15\%$ of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value . Appearance : no abnormal . 靜電容量變化：最初規定值的 $\pm 15\%$ 以內. 損失角：低于規定值 . 泄漏電流：低于規定值 . 外觀: 無異常 .

三. Electrical characteristics 電氣特性：

NO.	ITEM 項目	TEST METHOD 測試方法	SPECIFICATION 規格
3.1	Rated voltage 額定電壓		Voltage range、capacitance Dissipation factor , see specification of this series. 電壓、容量、損失角範圍請看該系列之規格說明.
3.2	Capacitance 靜電容量	1. Measuring frequency : 120 ± 12Hz 測 定 頻 率	
3.3	Dissipation factor 散逸因素 (損失角)	2. Measuring voltage : ≤0.5Vrms + 0.5 ~ 2.0VDC 測 定 電 壓 3. Measurement circuit : 	
3.4	Leakage current 泄 漏 電 流	DC leakage current shall be measured after 5 minutes application of the DC rated working voltage through the 1000 Ω resistor at 20℃ . 在20 ℃ 通過1000Ω的電阻施加直流工作電壓5分鐘後測定直流泄漏電流.  R : 1000 ± 100Ω S1 : Switch 開關 A : DC current meter S2 : Switch for protect of 直流電流計 current meter V : DC voltage meter 直流電流計的保護開關 直流電壓計 CX : Testing capacitor 測試電容	leakage current, see specification of this series. 泄漏電流請看該系列之規格說明.

四. Snap-In Type marking 牛腳型標識：

Marking on capacitors include：

電容器上的標識包括

① Su'scon trade-mark
Su'scon 商 標

② Norminal capacitance
標 準 靜 電 容 量

③ Working voltage
工 作 電 壓

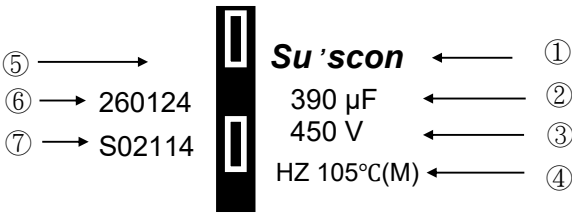
④ Series ,Maximum operating temperature ,Tolerance
系列, 最 高 使 用 溫 度,靜電容量許容差

⑤ Polarity
極 性

⑥ Y/Month/Day
年 月 日(6位碼)

⑦ Snap-In ,Production Lot
S+生產批號（5位碼）

⑤polarity is marked with white ink, other is marked by laser printing
⑤極性為白色油墨,其它均為鐳射刻印



鋁電解電容器存放環境與控制

Storage Conditions and Control for Aluminum Electrolytic Capacitor

1. 環境溫度：5℃ ~ 35℃, 環境相對濕度：75%以下。

Store the capacitor at a temperature of 5℃ to 35℃ and at a relative humidity of less than 75% .

2. 存放環境不應有陽光直射, 不宜高溫。

Store the capacitor in low temperature places free from direct sun shine .

3. 存放環境不能有鹽分、油含量高的霧氣。

Store the capacitor in places free from oil vapor、salt water vapor.

4. 存放在遠離氯氣、氨氣、硫化氫、亞硫酸、硝酸等有害氣體含量高的地方。

Store the capacitor in places far from toxic gases (chlorine、ammonium、hydrogen sulfide、sulphurous acid、nitric acid , etc) .

5. 儲存環境不能有臭氧、紫外線或輻射。

Store the capacitor in place free from Ozone、ultraviolet ray or radiation .

Detergent needing attention:

使用清潔劑之注意事項:

Hydrogen carbide liquid and halogen liquid can cause Aluminium Electrolytic Capacitor to corrode. Some of Safe and Unsafe detergent are as follows;

鋁質電解電容器會受含有碳化氫鹵素溶劑之侵蝕,下列為各種安全與不安全之清潔劑,為避免不必要的損失,您所使用有關印刷基板之清潔劑名請事先告知本公司.

Safe 安全	Unsafe 不安全
Methanol 甲醇	1.1.2- trichloroethane 1.1.2- 三氯乙烷
Ethanol 乙醇	Tetrachloroethylene 四氯化碳
Propanol 丙醇	Chloroform(colorless volatilizable liquid) 哥羅仿(無色揮發性液體)
Butanol 丁醇	Dichloromethane 二氯甲烷
Detergent 去垢劑	Trichlorethylene 三氯甲烯 Dimethybenzene 二甲苯

Caution for Proper use of PET Sleeve in Electrolytic Capacitors

Caution: Avoid PET sleeve to contact water , Because the PET material will be dissolved by water at high temperature

1. PET sleeve water dissolved conditions

(1) When PET sleeve contact water it will not action.

During production process, The PET sleeve have water or water in case of Capacitor and capacitor in high temperature, The PET sleeve will dissolved.

(2) Avoid use list solvents to clean the PET sleeve capacitors.

1、Aromatic Hydrocarbon(s)

Example: Solvent	Status
Benzene	To dissolved
Toluene	To dissolved
Xylene	To dissolved

2、Low molecular Ketones & Esters

Example:

Methyl Ethyl Ketone(MEK)
Dimethyl Ketone(Acetone)
Methyl Isobutyl Ketone(MIBK)
Cyclohexanone
Ethyl Acetate(EA)

3、Halogenated Hydrocarbon

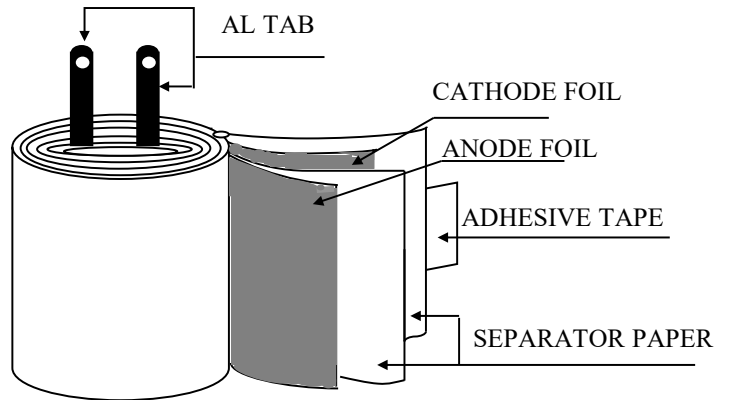
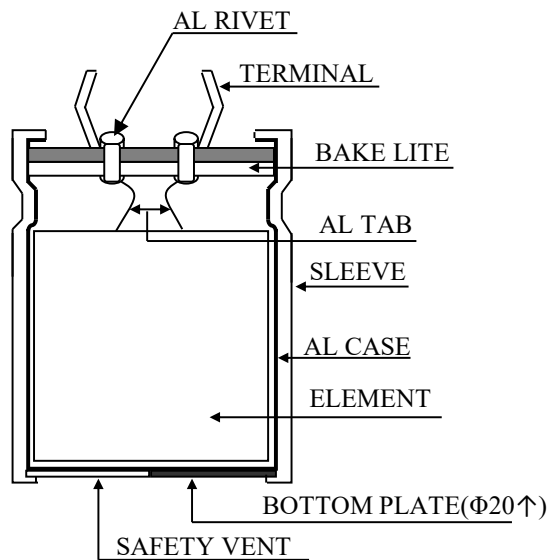
Example:

Methylene Chloride (MC)
Trichloroethyle (TCE)

2. When PET sleeve or case of capacitor dirty with oil that will not dissolved, During production process when their temperature rise up to 80°C, The sleeve will shrink unsmooth.

ALUMINUM ELECTROLYTIC CAPACITORS

STRUCTURE and MATERIALS



※.LARGE SIZED TYPE CAPACITORS COMPONENT

PART NAME	MATERIALS
AL RIVET	ALUMINUM 99.9%
TERMINAL	SPCC
BAKE LITE	RUBBER+PAPER LAMINATE
AL TAB	ALUMINUM 99.9% OVER
SLEEVE	INK
	P.E.T (Polyethylene Terephthalate Resin)
AL CASE	ALUMINUM 99.5%
ANODE FOIL	FORMED ALUMINUM 99.9% OVER
CATHODE FOIL	FORMED ALUMINUM 98.1% OVER
SEPARATOR PAPER	INSULATION PAPER
ADHESIVE TAPE	POLY PROPYLENE FILM

6. PRECAUTIONS AND GUIDELINES TO USERS

When using aluminum electrolytic capacitors, pay strict attention to the following:

1. Electrolytic capacitors for DC application require polarization.

Confirm the polarity. If used in reversed polarity, the circuit life may be shortened or the capacitor may be damaged. For use on circuits whose polarity is occasionally reversed, or whose polarity is unknown, use bi-polarized capacitors(BP-series).

Also, note that the electrolytic capacitor cannot be used for AC application.

2. Do not apply a voltage exceeding the capacitor's voltage rating.

If a voltage exceeding the capacitor's voltage rating is applied, the capacitor may be damaged as leakage current increases.

When using the capacitor with AC voltage superimposed on DC voltage, care must be exercised that the peak value of AC voltage does not exceed the rated voltage.

3. Do not allow excessive ripple current to pass.

Use the electrolytic capacitor at current values within the permissible ripple range. If the ripple current exceeds the specified value, request capacitors for high ripple current applications.

4. Ascertain the operating temperature range.

Use the electrolytic capacitors according to the specified operating temperature range. Usage at room temperature will ensure longer life.

5. The electrolytic capacitor is not suitable for circuits in which charge and discharge are frequently repeated.

If used in circuits in which charge and discharge are frequently repeated, the capacitance value may drop, or the capacitor may be damaged. Please consult our engineering department for assistance in these applications.

If the electrolytic capacitor is allowed to stand for a long time, its withstand voltage is liable to drop, resulting in increased leakage current. If the rated voltage is applied to such a product, a large leakage current occurs and this generates internal heat, which damaged the capacitor. If the electrolytic capacitor is allowed to stand for a long time, therefore, use it after giving voltage treatment. (However, the electrolytic capacitors can be guarantee for 2 years if keep in the normal temperature.)

6. Be careful of temperature and time when soldering.

When soldering a printed circuit board with various components, care must be taken that the soldering temperature is not too high and that the dipping time is not too long. Other wise, there will be adverse effects on the electrical characteristics and insulation sleeve of electrolytic capacitors in the case of small-sized electrolytic capacitors, nothing abnormal will occur if dipping is performed at less than 260 °C for less than 10 seconds.

7. Do not place a soldering iron body of the capacitor.

The electrolytic capacitor is covered with a vinyl sleeve. If the soldering iron comes in contact with the electrolytic capacitor body during wiring, damage to the vinyl sleeve and/or case may result in defective insulation, or improper protection

8. Cleaning circuit boards after soldering.

Some solvents have adverse effects on capacitors.

Please refer to the next page.

9. Do not apply excessive force to the lead wires or terminals.

If excessive force is applied to the lead wires and terminals, they may

be broken or their connections with the internal elements may be affected. (For strength of terminals, refer to

JIS C5101-1, JIS C5101-4)

10. Care should be used in selecting a storage area.

If electrolytic capacitors are exposed to high temperatures caused by such things as direct sunlight, the life of the capacitor may be adversely affected. Storage in a high humidity atmosphere may affect the solderability of lead wires and terminals.

11. Surge voltage:

Rated surge voltage shall be applied for 30 seconds and then shall be applied with discharge, for 330 seconds at room temperature. This cycle shall be repeated for 1000 cycles; Duration of one cycle is 6 minutes; then to judge capacitor's characteristics and appearance.

Rated Voltage(WV)	4	6.3	8	10	16	25	35	50	63	80	100	160	200	250	350	400	420	450	500
Surge Voltage(SV)	5	8	10	13	20	32	44	63	79	100	125	200	250	300	400	450	470	500	550

For methods of testing, refer to JIS C 5101-1, JIS C 5101-4.

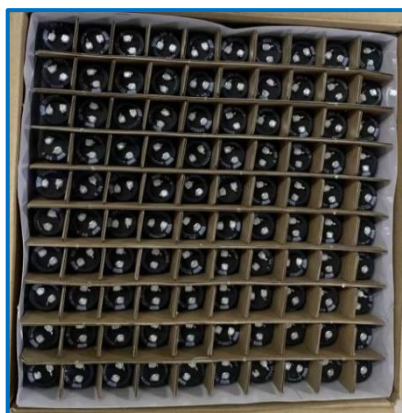
※ The above mentioned material according to EIAJRCR-2367B (issued in March, 2002), titled "Guideline of notabilia for aluminum electrolytic capacitors for use in electronic equipment". Please refer to the book for details.

ALUMINUM ELECTROLYTIC CAPACITORS

(尖角型包裝圖)

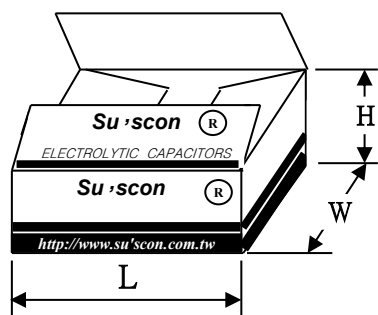
1) BOX

單位:mm



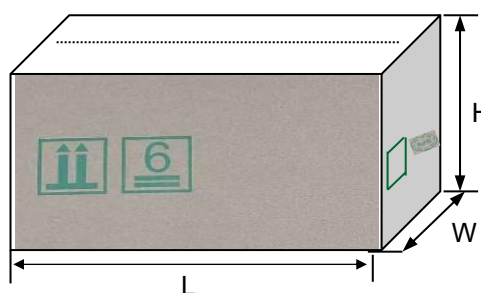
說明：為了抑制再生電壓產生,包裝時在電容引腳上方放整塊鋁箔,用於短接放電,并在放電紙上放整塊紙板固定,使用前請將整小箱倒置15秒,使電容器正負引腳充分插入鋁箔進行放電.

(INNER BOX)



內箱尺寸：
(L)204x(W)204x(H)146

(OUT BOX)



外箱尺寸：
(L)428x(W)214x(H)312

2)明細表

尺寸 (Φ ×L)	每內箱擺放標準	每外箱總數量 (四個內箱合為一個外箱) (KPCS/箱)
35×30	25pcs×3層	0.3

KUAN KUN ELECTRONIC ENTERPRISE CO.,LTD.