APPROVAL SHEET

Customer:	Ozdisan			
Customer Part NO.				
Part NO.	HX035M331G13PKKKP50A			
Item:	330uF/35V			
Catalog Series:	HX Series			
Date of Issue:	JUN.11.2024			
Approved NO. :	SD20240600255			

BUYER'S STAMP	Approved by				

Surscon	Submitted by						
Su' scon	Approval	Check	Affirm	Design			
新 ^{神電子有限} 發 行 2024-06-11 工程部	工程部 2024-06-11 鐘 華	工程部 2024-06-11 集仙平	工程部 2024-06-11 呂明波	工程部 2024-06-11 賴彤影			



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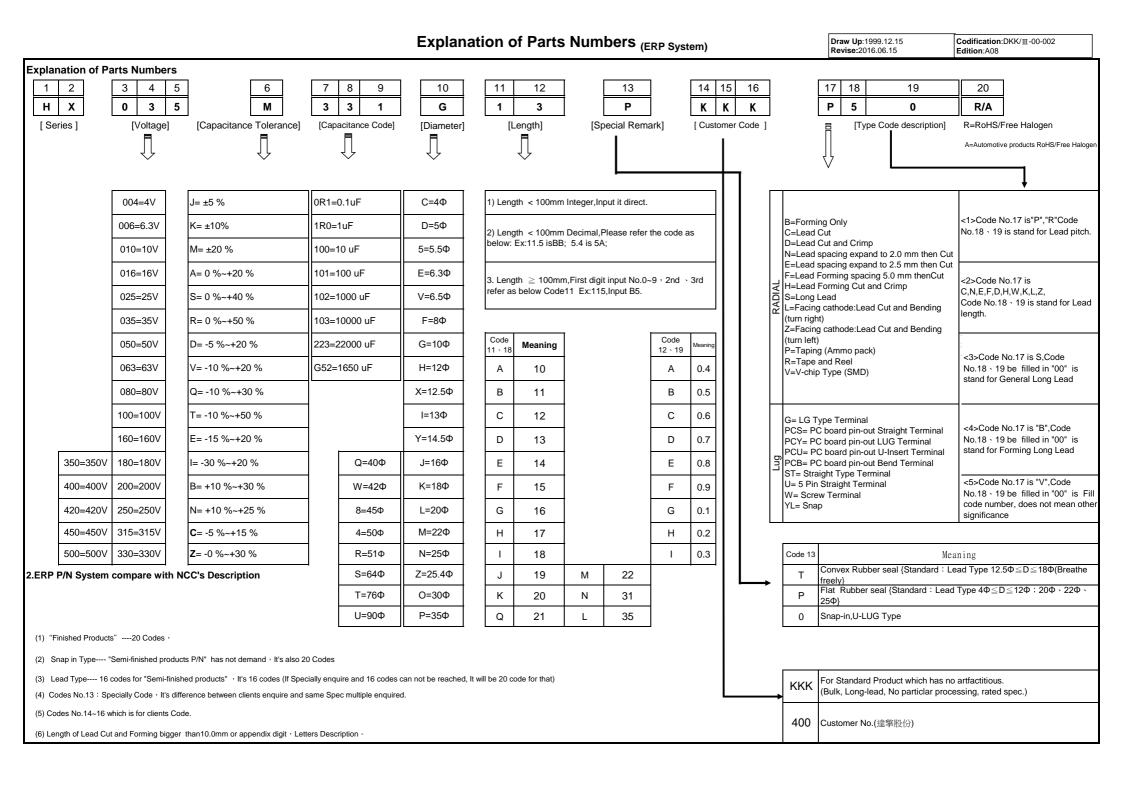
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	RECORD OF REVISION									
NO.	VERSION	REASON	N	DATE	CHECKED	REMARKS				
1	A00	First Relea	ase	2024.06.11	劉冬冬					
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HX Specification For Approval

NO.	Customer Part No.	Specification	Su' scon Part No.
1		EC,330uF/35V	HX035M331G13PKKKP50A
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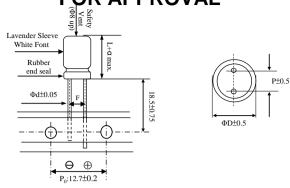
DONG GUAN KUAN KUN ELECTRONIC CO., LTD

YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL: +86-769- 87318000 DONG GUAN CITY, GUAN DONG CHINA (P.R.O.C) FAX: +86-769- 87318008

FOR APPROVAL

DIMENSIONS(mm)

ФD	10
L	13
α	1.0
Р	5.0
F +0.8 -0.2	5.0
Фd	0.6



Customer:	Electrolytic Capacitors						Su'scon					
					HX Se	ries				Cod	е	
Electric Characteris	Electric Characteristics:											
0-4:	Su'scon	Сар.	Сар.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	I.M.P	Load
Ozdisan	3u 50011	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100KHz	100KHz	Life
P/N	P/N		(%)	(V-DC)	(V-DC)	(℃)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(Hours)
	HX035M331G13PKKKP50A	330	±20	35	44	105	10*13	115	12	1765	0.052	9000

REMARKS:

1. Leakage Current Test: 6.3V ~100V at 20℃ for 2 minutes ;

2. Operating temperature: $6.3V\sim100V-40^{\circ}C\sim+105^{\circ}C$;

3. Dissipation Factor Test:at 20° C, 120 Hz.4. Capacitance Test:at 20° C, 120 Hz.5. Ripple Current Test :at 105° C, 100K Hz ;

6. Load Life: subjected to DC voltage with the rated ripple current is applied at 105℃.

Case size	6.3V	10~50V	63~100V				
ФD5~ФD6.3	6000H	7000H	6000H				
ФD8x11.5~14L	8000H	9000H	8000H				
ΦD8x15~25L	9000H	10000H	9000H				
ФD10x13L	9000Н						
ΦD10x16L~25L >ΦD10	10000Н						

Capacitance Change: 6.3~10V, Within±30% of initial value; 16~100V, Within±25% of initial value;

tanδ: 200% or less of initial specified value;

According to the specified value which stated in the catalogue to do the life testing;

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°C without voltage applide. Before the measurement,

the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.

0.95

0.98

1.00

1.00

Capacitance Change : Within±20% 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.

SPECIFICATION

Leakage Current	- COACV or 2000 MARKET 2 minutes application of DC warking values at 20°C \									
洩漏電流	T≦0.01CV of 3(dA)(After 2 million	≤0.01CV or 3(uA)(After 2 minutes application of DC working voltage,at 20°C)								
Dissipation Factor	Measurement Frequency:120Hz.	leasurement Frequency:120Hz. Temperature:20°C								
散逸因素 (損失角正切)	Rate Voltage(V)	6.3	10	16	25	35	50	63	80	100
(tan δ)	tanδ (MAX)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	80.0	0.08
	When nominal capacitance over	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.								
Standards 參照標準		•		JIS C-510	01-4(IEC 60	384)		•		

•RIPPLE CURRENT COEFFICIENTS

2200~3900

4700~18000

Frequency coefficient of allowable ripple current									
Capacitance(uf)		Frequency(Hz)							
Capacitance(ut)	120	1K	10K	100K					
5.6~180	0.40	0.70	0.90	1.00					
220~560	0.50	0.85	0.94	1.00					
680~1800	0.60	0.87	0.95	1.00					

0.90

0.95

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5° C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

0.75

0.85

一. Scope 適用范圍:

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

本說明對于用電子儀器設備進行檢測之鋁電解電容器 適用.

□. TABLE-TABLE OF METHODS REFERENCED ALUMINUM ELECTROLYTIC CAPACITORS

表-铝电解电容器参考方法

NO.	Stress	Reference	Additional Requirements	SPECIFICATION
110.	应力方式	参考方法	附加要求	規格
	Pre- and Post- Stress Electrical		Test is performed except as specified in the applicable stress reference	In the experimental report
	应力测试 前后电气测试	**	and the additional requirements in Table	分布在試驗報告中
1	CHANGE CHANGE	User spec.用户规格	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。	
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。	Capacitance change Tan δ .Rate of change: please have a look at this erio of shelf life standard. less that 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
			试验结束后24±4小时内进行测试。 1000 cycles (-40℃ to 105℃) Note: If 85℃ or	外觀: 無異常。 Capacitance change: within ±20% of the initial
4	TemperatureCy d cling 温度循环	mperatureCy cling JESD22Method JA-104 温度循环	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.	specified value. Tan δ:200% of initial specified value .Leakage current: less than specified value . Appearance: no abnormal.
			1000个循环(-40℃到105℃)。注意:如果85℃ 或125℃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。	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.
_	Biased Humidity	MIL-STD-202 Method 103	1000 hours 85°C/85%RH. Rated Voltage. Measurement at 24±4 hours after test conclusion.	Capacitance change: within 20% of the initial specified value. Tan δ : less than specified value .Leakage current: less than specified value .Appearance: no abnormal.
7 高溫高濕	202 Method 103	在温度85℃,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。	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	Reference	Additional Requirements	SPECIFICATION
	应力方式	参考方法	附加要求	規格 Capacitance change
8	Operational	Note:9000 hrs @ 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.		
	工作寿命			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	MIL-STD-883 Method 2009	workmanship. Electrical Test not required.	In the experimental report
	外观		检查器件结构,标识和工艺质量。不要求电 气测试。	分布在試驗報告中
10	Physical Dimension	JESD22Method JB-100	Verify physical dimensions to the applicable device detail specification. Note: User(s) and Suppliers spec. Electrical Test not required.	Do judgement, according to the specification sheet.
	尺寸		接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。	依據規格書判斷
	Terminal Strength		Test leaded device lead integrity only. Conditions: A (454 g), C (227 g), E (1.45 kg-mm)	Capacitance change: within \pm 5% of the initial specified value. Tan δ :less than specified value. Leakage current: less than specified value.
11	11 (Leaded)端子 强度(引脚)		只进行引脚器件的引脚牢固性测试。条件:	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		Note: Also aqueous wash chemical - OKEM clean or equivalent. Do not use banned solvents.	Capacitance change: within ± 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
	溶剂抵抗		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。	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, 外观: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 ±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±5%以內. 損失角:低于規定值, 泄漏電流:低于規定值, 外觀:無異常.
14	Vibration 振动	MIL-STD-202Method 204	5g's for 20 minutes 12 cycles each of 3 orientations. 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 ± 5% of the initial specified value. Tan δ:less than specified value .Leakage current: less than specified value ,No damage or leakage of electrolyte. 静電容量變化: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 ,無損傷或電解液漏出 .
15	Resistance to Soldering Heat 抗焊接热	MIL-STD-202 Method 210		Capacitance change: within ± 10% of the initial specified value. Tan δ:less than specified value .Leakage current: less than specified value. 静電容量變化:最初規定值的± 10%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
			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.	The solder alloy shall cover the 95% or more of the dipped lead's area.
18	Solderability 可焊性	J-STD-002	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℃,类别3。表面贴装元件:a) 方法B, 4 小时@155℃干热@235℃b)方法B @215℃ 类别3。c)方法D 类别3 @260℃	錫液要覆蓋導針浸入表面積的 95%以上.
19	requirements, summary to show Min, Max, Mean and Standard deviation at room as well		Capacitance change :within ± 20% of the initial measured value.Leakage current : less than specified value .	
	电气特性	User Spec./刊) 然相	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。	靜電容量變化:最初測定值的 ±20%內.125℃為規格值10倍 以下,105℃為規格值8倍以 下,85℃為規格值5倍以下, 損失角:低于規定值.
	Surge Velta	HG G 5101 1	Rated surge voltage shall be applied (swich on) for 30 ± 5 seconds and then shall be applied (swich 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 .	Capacitance change : within ± 15% of the initial specified value. Tan δ :less than specified value .Leakage current : less than specified value .Appearance : no abnormal .
27	Surge Voltage 浪涌电压	JIS-C-5101-1		靜電容量變化: 最初規定值的 ± 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.

NO.	ITEM 項目	TEST METHOD:	SPECIFICATION 規格					
3.1	Rated voltage 額定電壓							
3.2	Capacitance 靜電容量	1. Measuring frequency: 120 ± 12 Hz 測定頻率 2. Measuring voltage: ≤ 0.5 Vrms + $0.5 \sim 2.0$ V	/DC	Voltage range \ capacitance range Dissipation factor, see specification of this series.				
3.3	Dissipation factor 散逸因素 (損失角)	測定電壓 3. Measurement circuit: 測定電路	測定電壓 Measurement circuit:					
3.4	Leakage current	DC leakage current shall be measured after 2 minu	tes					
	泄漏電流	application of the DC rated working voltage throug	gh the	leakage current, see specification				
		$1000~\Omega$ resistor at 20° C.		of this series.				
		在20℃通過1000Ω的電阻施加直流工作電壓 2分	泄漏電流請看該系列之規格說明.					
		後測定直流泄漏電流.						
		+ = V	$ \underbrace{\widehat{A}}_{S2} $ $ \underbrace{CX}_{CX} $					
		$R:1000\pm100\Omega$	S1:Swich 開關					
		A: DC current meter	S2: Swich 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					

四. Marking 標識:

Marking on capacitors include :

電容器上的標識包括

■ Su'scon trade-mark Su'scon 商標

■ Working voltage 工作電壓

■ Norminal capacitance 標準靜電容量

■ Tolerance 靜電容量許容差

■ Polarity 極性

■ Maximum operating temperature 最高使用溫度

■ Date code 周 期 **Lead Wire**

Su'scon

330 uF 35 V



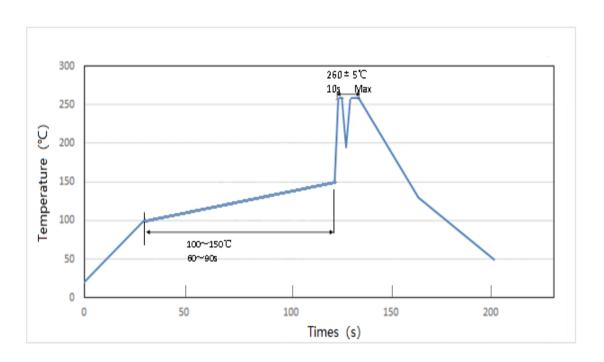
HX 105℃

2016 (M)

Su'scon

東莞冠坤電子有限公司 Dong Guan Kuan Kun Electronic Co., LTD

The Temperature Record of wane soldering machine



項目 Items	溫度 Temperature	時間 Time	備註 Remark
預熱溫度 Preheat temp. range	100℃~150℃	60~90sec max	升温速率:1~2℃ /sec Ramp-up rate
錫波溫度 Tin wave temperature	255~265℃	錫焊時間:5~10sec Soldering time	/
整個波峰焊接工藝總時間 Total time of the wave about soldering	/	3min以内 within 3 mins	/

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° C to 35° C 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、油含量高的霧气.
 - Store the capacitor in places free from oil vapor, salt water vapor.
- 4. 存放在遠離氯气、氨气、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、紫外線或幅射.

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容劑之侵蝕,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	1.1.2- trichloroethane
甲醇	1.1.2- 三氯乙烷
Ethanol	Tetrachloroethylene
乙醇	四氯化碳
Propanol	Chloroform(colorless volatilizable liquid)
丙醇	哥羅仿(無色揮發性液體)
Butanol	Dichloromethane
丁醇	二氯甲烷
Detergent	Trichlorelethylene
去垢劑	三氯甲烯
	Dimethybenxene
	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

- 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:

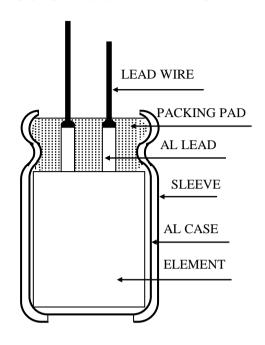
Methylene Chloride (MC)

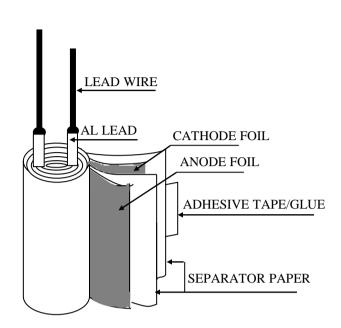
Trichloroethyle (TCE)

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

ELECTROLYTIC ALUMINUM CAPACITORS

STRUCTURE and MATERIALS





*MINIATURE SIZED TYPE CAPACITORS COMPONENT

PART NAME	MATERIALS			
LEAD WIRE	TIN COATED COPPER COVERED STEEL WIRE			
AL LEAD	ALUMINUM 99.90% OVER			
PACKING PAD	SYNTHETIC RUBBER OR BAKE PAD			
OLEEVE	INK			
SLEEVE	P.E.T (Polyethylene Terephthalate Resin)			
AL CASE	ALUMINUM 99.5% OVER			
ANODE FOIL	FORMED ALUMINUM 99.9% OVER			
CATHODE FOIL	FORMED ALUMINUM 98.1% OVER			
SEPARATOR PAPER	INSULATION PAPER			
ADHESIVE TAPE/GLUE	ADHESIVE TAPE:POLY PROPYLENE FILM;GLUE:PVA			

6. PRECAUTIONS AND GUIDELINES TO USERS

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

1. Electrolytic capacitors for DC application require polarization.

Confirm the polarity. If uesd 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

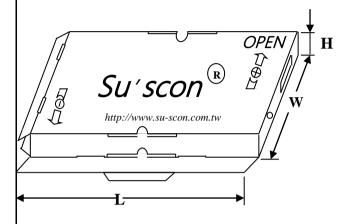
For methods of testing, refer to JIS C 5101-1, JIS C 5101-4.

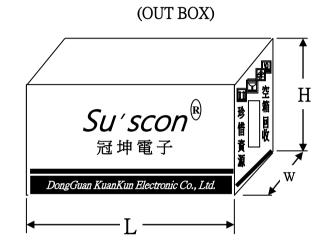
The above mentioned material according to EIAJRCR-2367B (issued in March, 2002), titled "Guideline of notabilia for aluminum electrolytic capacitors for use in electronic equipment". Prease refer to the book for details.

ALUMINUM ELECTROLYTIC CAPACITORS

(貼品包裝圖)







内盒尺寸:(L)320x(W)218x(H)51

外箱尺寸:(L)335x(W)233x(H)275

2)明細表

尺寸	數量	每箱擺放標準	外箱總數量				
(Φ xL)	(PCS/盒)		(KPCS/箱)				
10×13	600	一層1盒x5	3				

KUAN KUN ELECTRONIC ENTERPRISE CO.,LTD.