# **APPROVAL SHEET**

Customer:	Ozdisan		
Customer Part NO.			
Part NO.	HG035M182K20TKKKS00A		
Item:	1800uF/35V		
Catalog Series:	HG Series		
Date of Issue:	JUN.11.2024		
Approved NO. :	SD20240600255		

BUYER'S STAMP	Approved by				

Su' scon	Submitted by					
Su scoii	Approval	Check	Affirm	Design		
○ <b>發</b> 行 □ 2024-06-11 工程部	工程部 2024-06-11 鍾 華	工程部 2024-06-11 熊仙平	工程部 2024-06-11 呂明波	工程部 2024-06-11 賴彤影		





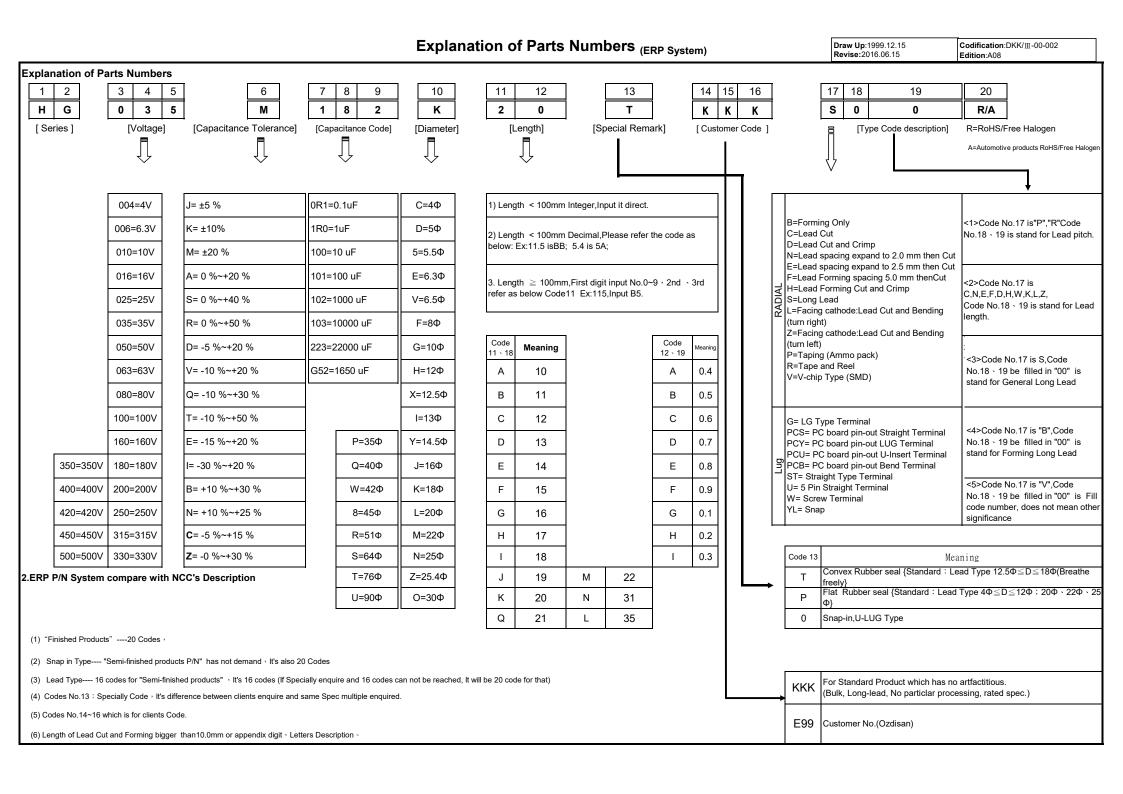
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	RECORD OF REVISION								
NO.	VERSION	REASON	١	DATE	CHECKED	REMARKS			
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# **HG Specification For Approval**

NO.	Customer Part No.	Specification	Su'scon Part No.
1		EC,1800uF/35V	HG035M182K20TKKKS00A
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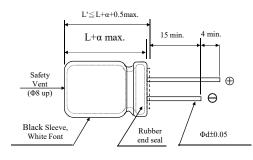
#### DONG GUAN KUAN KUN ELECTRONIC CO., LTD

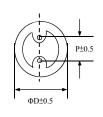
YIN HE INDUSTRIAL ZONE, QING XI TOWN, TEL: +86-769- 87318000 DONG GUAN CITY, GUAN DONG CHINA (P.R.O.C) FAX: +86-769- 87318008

#### FOR APPROVAL

#### DIMENSIONS(mm)

ФD	18
L	20
α	2.0
Р	7.5
Фd	0.8





Customer: Ozdisan		Electrolytic Capacitors HG Series						Su'scon Code				
Electric Characteristics:												
Ozdisan	0	Сар.	Сар.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	IMP	Load
Ozdisan	Surscon	(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 )
	HG035M182K20TKKKS00A	1800	±20	35	44	105	18*20	630	12	2870	0.025	10000

#### REMARKS:

1. Leakage Current 1 6.3V ~120V at 20℃ for 2 minutes ;

2. Operating temperature: 6.3V~120V -40℃~ +105℃;

3. Dissipation Factor Test:at  $20^{\circ}$ C, 120 Hz.4. Capacitance Test:at  $20^{\circ}$ C, 120 Hz.5. Ripple Current Test:at  $105^{\circ}$ C, 100K Hz;

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

6.3~10V ΦD≤6.3Φ 4000 hours, ΦD=8,10Φ 6000 hours, ΦD≥12.5Φ 8000 hours; 16~120V ΦD≤6.3Φ 5000 hours, ΦD=8,10Φ 7000 hours, ΦD≥12.5Φ 10000 hours.

Capacitance Change: 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℃ 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±20% of initial value;

tanō: 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 I≤0.01CV or 3(uA)(After 2 minutes application of DC working voltage,at 20°C) 洩漏電流 **Dissipation Factor** Measurement Frequency:120Hz. Temperature:20°C Rate Voltage(V) 散逸因素(損失角正切) 6.3 10 16 25 35 50 63 100 120 (tan δ) tanδ (MAX) 0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08 0.15 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 AEC-Q200

#### •RIPPLE CURRENT COEFFICIENTS

SPECIFICATION

requency coefficient of allowable ripple current

Frequency coefficient of allowable ripple current							
Constitution (1.f)			Frequency(Hz)				
Capacitance(uf)	50	120	300	1K	100K		
≦33	0.50	0.55	0.70	0.90	1.00		
47~330	0.60	0.70	0.85	0.95	1.00		
470~1000	0.65	0.75	0.90	0.98	1.00		
1200~18000	0.70	0.80	0.95	1.00	1.00		

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.

## 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	
	应力方式	参考方法		規格	
1	Pre- and Post- Stress Electrical Test 应力测试	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	In the experimental report 分布在試驗報告中	
	前后电气测试		和表3中的附加要求指定之外。  1000 hrs. at rated operating temperature (e.g. 105° C part can be stored for 1000 hrs at 105°C. Same	Capacitance change Tan δ .Rate of change: please have a look at this erie	
3	High Temperature Exposure (Storage)	MIL-STD-202 Method 108	applies for 85°C & 125°C). Unpowered. Measurement at 24±4 hours after test conclusion.	of shelf life standard. less that specified value.  Appearance: no abnormal. 容量.損失角,的變化標準:	
高温存储		高温存储 如:105℃的广 同样地也适		在额定工作温度下放置器件1000小时(例如:105℃的产品可以在105℃下存储1000小时,同样地也适用于85℃和125℃的产品),不通电。试验结束后24±4小时内进行测试。	請見該系列的放置壽命說明標準. 標準. 泄漏電流:低于初期規定值 外觀:無異常.
4	TemperatureCy 4 cling 温度循环	nperatureCy cling JESD22Method JA-104 温度循环	1000 cycles (-40°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.	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.	
			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。	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	MIL-STD-202 Method 103	1000 hours 85°C/85%RH. Rated Voltage. Measurement at 24±4 hours after test conclusion.	Capacitance change: within $\pm$ 20% of the initial specified value. Tan $\delta$ : less than specified value .Leakage current: less than specified value .Appearance: no abnormal.	
高溫高濕	高溫高濕	高溫高潔 	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.	

	Stress	Reference	Additional Requirements	SPECIFICATION
NC	· 应力方式	参考方法	Multional Requirements 附加要求	規格
	Operational 8 Life 工作寿命	rational .ife MIL-STD-202 Method 108 F寿命	Note: X 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.	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 .
8			注意:X小时@ 105℃。如果85℃或125℃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。 (X: see load life of this series. 見該系列負荷壽命說明.)	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	Inspect device construction, marking and 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
111	Terminal Strength (Leaded)端子 强度(引脚)	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 $\delta$ :less than specified value. Leakage current: less than specified value.	
		gaded)端子 定(引脚)		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	MIL-STD-202 Method 215	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.  5克的力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	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.	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
	18 Solderability 可焊性	1-5111-007	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			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.
	Electrical 19 Characterization 电气特性	ucterization 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.	Capacitance change :within ± 20% of the initial measured value.Leakage current : less than specified value .
19			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%内. 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.
25	27 Surge Voltage 浪涌电压		Rated surge voltage shall be applied (swich on) for $30 \pm 5$ seconds and then shall be applied (swich off) with discharge for $330\pm 5$ seconds at room temperature . This cycle shall be repeated for $1000$ cycles .Duration of one cycle is $6\pm 0.5$ 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			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分鍾為一個循環周期.	

<u>三. E</u>	lectrical chara	eristics 電氣特性:					
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: $120 \pm 12$ Hz 測 定 頻 率 2. Measuring voltage: $\leq 0.5$ Vrms + $0.5 \sim 2.0$ °	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	電壓、容量范圍、損失角請看該系列 之規格說明.				
3.4	Leakage current 泄漏電流	DC leakage current shall be measured after 2 minu application of the DC rated working voltage through $1000~\Omega$ resistor at $20^{\circ}$ C. 在 $20^{\circ}$ C. 通過 $1000\Omega$ 的電阻施加直流工作電壓 $2^{\circ}$ 後測定直流泄漏電流.	gh the	leakage current, see specification of this series. 泄漏電流請看該系列之規格說明.			
		直流電流計 V : DC voltage meter	S2: Swich for protect of current meter 直流電流計的保護開關 CX: Testing capacitor				
		上/川 电连印	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

1800 uF 35 V



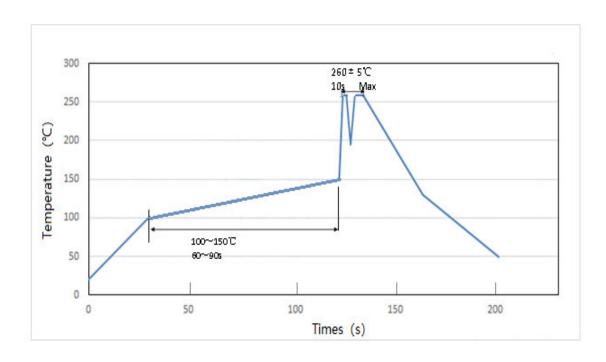
HG 105℃

2408 (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	升溫速率: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  $5^{\circ}$ C to  $35^{\circ}$ C and at a relative humidity of less than  $75^{\circ}$ .
- 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)
<b>丙醇</b>	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:**

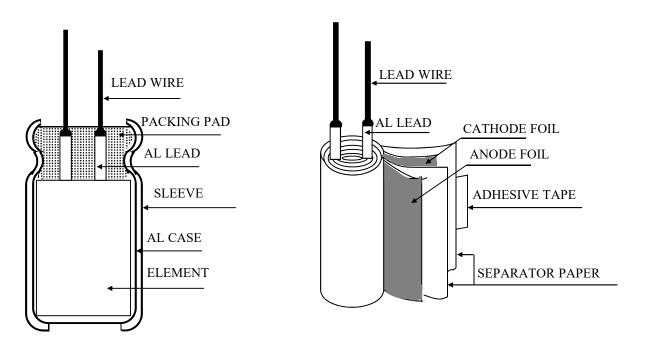
Methylene Chloride (MC)

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				
SLEEVE	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	POLY PROPYLENE FILM				

#### 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.

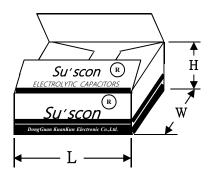
※ The above mentioned material according to EIAJRCR-2367B (issued in March, 2002), titled "Guideline of notabilia for aluminum electrolytic capacitors for use in electronic equipment". Prease refer to the book for details.

# **ALUMINUM ELECTROLYTIC CAPACITORS**

(長腳品包裝圖)

1) BOX 單位:mm

(INNER BOX)



内箱尺寸: L254 xW 254xH 146 mm

# 2)明細表

尺寸 ( ΦxL)	每內箱數量 (PCS)	內箱疊放標準 (兩個白盒為一個內箱) (PCS)						
18×20	286	每白盒:143(13PCS×11排)						

KUAN KUN ELECTRONIC ENTERPRISE CO.,LTD.