# **APPROVAL SHEET**

Customer:	
Customer Part NO.	
Part NO.	CS010M101E4BPC97V00R
Item:	100uF/10V
Catalog Series:	CS Series
Date of Issue:	SEP.08.2025
Approved NO. :	SD20250900251-11

BUYER'S STAMP	Approved by						

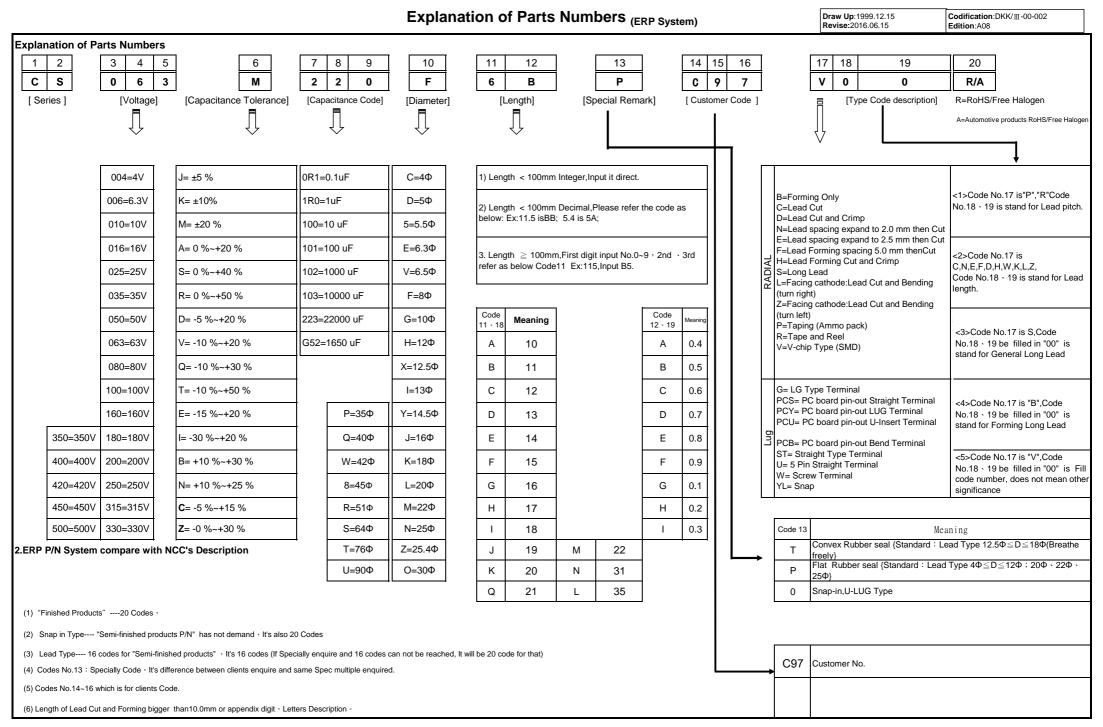
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# **CS** Specification For Approval

NO.	Customer Part No.	Specification	Su'scon Part No.
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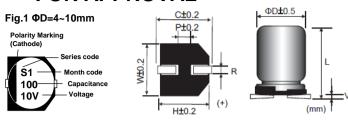
#### DONG GUAN KUAN KUN ELECTRONIC CO., LTD

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

#### DIMENSIONS(mm)

■ Chip Type

#### FOR APPROVAL



Size	ФD	L	W	Н	С	R	Р	Vmax
4*5.4	4.0	5.4±0.3	4.3	4.3	5.1	0.5~0.8	1.0	0.3
5*5.4	5.0	5.4±0.3	5.3	5.3	5.9	0.5~0.8	1.4	0.3
6.3*5.4	6.3	5.4±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3*7.7	6.3	7.7±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
8*6.5	8.0	6.5±0.3	8.3	8.3	9.0	0.5~0.8	2.3	0.3
8*10	8.0	10±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10*10	10.0	10±0.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3

Customer:	Customer:		Aluminum Electrolytic Capacitors								
		CS Series								de	
Electric Characteristics:											
	0	Cap.	Сар.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	Load
	Su'scon	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	120 Hz	Life
P/N	P/N		(%)	(V-DC)	(V-DC)	(℃)	D*L(mm)	Max (uA)	(%)	(mA rms)	(H)
	CS010M101E4BPC97V00R	100	±20	10	11.5	85	6.3*4.5	26	10	62	2000

#### REMARKS:

1. Leakage Current Test: 4V ~100V at 20℃ for 2 minutes ;

2. Operating temperature : 4V~100V -55°C~ +85°C;

3. Dissipation Factor Test:at  $20^{\circ}$ C, 120 Hz.4. Capacitance Test:at  $20^{\circ}$ C, 120 Hz.5. Ripple Current Test:at  $85^{\circ}$ C, 120 Hz;

6. Load Life: 2000 hours, with application of rated voltage at 85℃.

Capacitance Change: Within ±20% of Initial Value(within ±25% for 4V)

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 85°C 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

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.

9.Remarks: Su'scon Part Number with suffix code "A" is specially offered for automotive project,

which meets AEC-Q200 standard.

#### SPECIFICATION

•SPECIFICATION										
Leakage Current	1/0 040\/ oz 2(\(\)\ \\ \\	I<0.040V or 2(uA) which is greater (after 2 minutes application of rated voltage)								
洩漏電流	I ≈ 0.01CV of 3(uA), which	\$\leq 0.01CV \text{ or 3(uA)} \text{,which is greater.(after 2 minutes application of rated voltage)}								
Dissipation Factor	Measurement Frequency:12	surement Frequency:120Hz. Temperature: 20°C								
散逸因素(損失角)	Rate Voltage(V)	4	6.3	10	16	25	35	50	63~100	
(tan δ)	tan δ (MAX)	0.42	0.30	0.26	0.22	0.16	0.14	0.14	0.12	
Low Temperature Stability	Measurement Frequency:12	20Hz.								
低溫特性	Rate Voltage(V)	4	6.3	10	16	25	35	50	63~100	
Impedance Ratio(MAX)	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	2	
阻抗比率(MAX)	<b>Z(-55°ℂ)/Z(20°</b> ℂ)	15	8	8	4	4	3	3	3	
Standards 參照標準		JIS C-5101-4(IEC 60384)								

#### •Frequency coefficient of rated ripple current

Frequency(HZ)	50	120	300	1k	≧10k
Coefficient	0.70	1.00	1.17	1.36	1.50

#### —. Scope 適用範圍:

This specification applies to Aluminum Electrolytic Capacitor , to measurement their performance by testing equipme 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

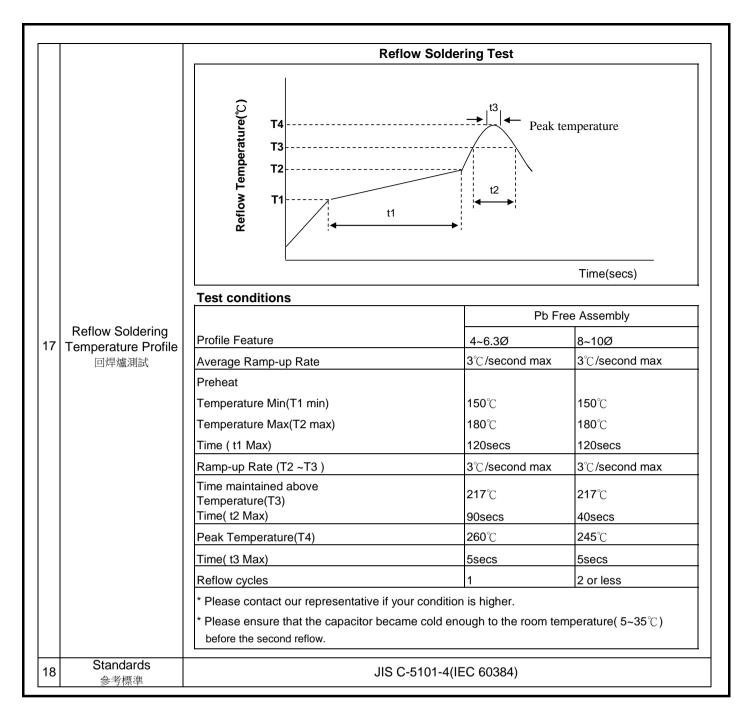
#### 二. Electrical/Mechanical Characteristics 電氣/機械特性:

1	SERIES	CS								
2	Rated voltage	4~ 100VDC								
	額定電壓									
3	Operating Temperature Range 應用溫度範圍	Operating temperature range is the range of allowable working temperature at Which the capacitor can be operated continuously at rated voltage.  溫度範圍: 指電容器在額定電壓連續使用時, 其允許的溫度範圍。  spec: 4V~100V  -55℃~+85℃								
4	Capacitance 靜電容量	Measuring Temperature								
5	Dissipation factor 散逸因素(tan δ)	Measurement shall be made under the same conditions as those given for the measurement of capacitance.  測試電容時,須符合以下之規定.  Spec: Rated Voltage (V) 4 6.3 10 16 25 35 50 63~100 tan δ(Max) 0.42 0.30 0.26 0.22 0.16 0.14 0.14 0.12								
6	Leakage current 洩漏電流	DC leakage current shall be measured after 2 minutes application of the DC rated working voltage through the series resistor 1,000 Ω at 20°C. 在20°C 下以工作電壓. 施加電流於串聯電容器之電阻1000Ω 2分後 測定直流漏電流. Measurement circuit 測定電路:  R : 1000 ± 100Ω S1 : Switch 開關  A : DC current meter S2 : Switch for protect of current meter 直流電流計 直流電流計の保護開關  V : DC voltage meter CX : Test capacitor 直流電壓計 測試電容  The following specifications shall be satisfied when the rated voltage is applied for the required time.  印加額定工作電壓, 其通電時間. 須符合下面要求.  Spec: I≤0.01CV or 3(uA), which is greater. (After 2 minutes application of rated voltage)								

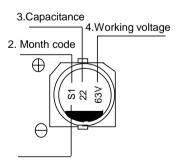
7	Characteristics of temperature 温度特性	Step 2. M	STEP 步驟  1 2 3 4  Measure the capacitan 則定靜電容量及阻抗 (Z leasure the impedance 達到熱平衡2小時後,以 mpedance ratio (Zr/ 阻抗比:低于規定值。	nce a r0) .( ce at t 即定阻 Z r0	2 -5 2 nd im   Z   :herm 抗 (Zr	, $20\%$ , al baland ).( $\mid$ Z $\mid$ than sp	© © © ce. 120Hace aff , -55 pecifie	lz±1 eer 2 °C, 1 ed val	hour 20Hz lue.	3 3 7s. z ± 10%)	效置時 0 minu 2 hour 0 minu 2 hour	tes s tes		
	温度特性	· · · · · · · · · · · · · · · · · · ·	leasure the capacitan 達到熱平衡2小時後,測 Capacitance change: 靜電容量變化:最初測定 eakage current:Less 電流: 初期規格值的 g frequency:120HZ Rated Voltage(V) Z('-25℃)/Z(20℃)	n定静的 within E值的 s tha	電容量 ± 20 ± 20% n 10	及漏電》 % of the 以内.	fi.e initia	ıl mea	asure	ed value	Je .	r 2 hour	5.	
8	Surge voltage Test 突波試驗	(switch of for 1,000 在常溫下,並放電 5. Measurer +	Capacitance chang 靜電容量變化:最初測 Dissipation factor 損失角:低於規定值。 Leakage current: 漏電流:低于規定值	Or 5.5 of on 波明 Surge Prote R1:位 CX: ge:initial	e cyc E 30 1000 le volt 電壓 ective capac jithin b ± 15 al spe	5 min. alle is 6 state of the	at roce ± 0.5	om te minu i Li施 i G(1kΩ) e init e or le 63	empe utes 加(開 為一行 ) ial m ess. ss.	erature · · 間關斷路) 循環周期 DC VI Dis R2 Sw S:	This 突波電 · voltme ): DC charge itch	Exercise slave state of the st	nall be r	

		Reasonable pulling strength:0.1~0.7N
		最適當拉張度之強度:0.1~0.7N
		Pulling speed:300mm/min
		拉扯之速度:300mm/min
		push pull scale
9	Adhesion Test 密著性試驗方法	seal tape
		θ:approx.10°
		e carrier tape
		The leads are dipped in the solder bath of Sn at $245 \pm 5  ^{\circ}\!\!\! \text{C}$ for $3 \pm 0.5$ seconds .
		The dipping depth should be set at 1.5 ~ 2.0 mm .
10	Solder ability 焊錫性	端子浸沒在 $245 \pm 5$ $℃$ 的錫焊液中 $3 \pm 0.5$ 秒 . 浸沒深度設定為 $1.5 \sim 2.0$ mm .
	7 7 7 7 7 1 1 1	spec: 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.
		The leads immerse in the solder bath of Sn at 250 $\pm$ 5 $^{\circ}\mathrm{C}$ for 30 $\pm$ 1 seconds until
		a distance of 1.5~ 2mm from the case .
		導針在 250 ±5 ℃ 的錫 焊液中浸沒至離本 體 1.5 ~ 2 mm 的地方 30 ± 1 秒鍾 .
		SPEC: No damage or leakage of electrolyte .
11	Resistance to soldering heat	無損傷或電解液漏出.  Capacitance change :within ± 10% of the initial measured value.
	焊錫耐熱性	容量變化: 最初測定值的 ± 10%以內.
		Dissipation factor : initial specified value or less.
		損失角: 低於規定值.
		Leakage current: initial specified value or less.
		洩漏電流:低於規定值.
		The frequency of the vibration shall vary uniformly within the range 10 to 55 Hz
		with the amplitude of 1.5 mm, completing the cycle in the internal of one minute.
		The capacitor shall be securely mounted by its leads with hold the body of capacitor.  The capacitor shall be vibrated in three mutually perpendicular directions
		for a period of 2 hours in each direction .(a total 6 hours)
		振動頻率要均匀, 範圍為 10 Hz, 到 55 Hz, 振 幅為 1.5 mm, 在 1 分鍾內完成該循環.
		電容器將由端子牢固地固定.
12	Vibration	電容器會被向三個互相垂直的方向每個方向振動 2 小時.(總時間為6小時)
	耐振性	spec Capacitance: no unsteady.
		新電容量 : 穩定 ·
		Appearance : no abnormal .
		外 觀 :無異常.
		Capacitance change: within ± 5% of initial measured value.
		容量變化:最初測定值的±5%以內.

		Cubicat the connections to 40 × 0 °C and 000/ to 050/ mileting boundaries for 500 × 01
		Subject the capacitors to 40 ± 2 °C and 90% to 95% relative humidity for 500 ± 8 hours.
		電容器在 40 ± 2 ℃ 及相對濕度 90% ~ 95% 的條件下經歷 500 ± 8 小時.
	Damp heat	Spec: Capacitance change :within ± 10% of the initial measured value .
13	( steady state )	容量變化:最初測定值的 ± 10%以內.
	耐 濕 性	Dissipation factor: initial specified value or less.
	(穩定狀態)	損失角 : 低於規定值 .
		Leakage current : initial specified value or less.
		洩漏電流:低於規定值.
		The following specifications shall be satisfied when the capacitors are
		restored to 20℃. after exposing them for 1,000 hours at 85℃, without voltage applied.
		During testing The rated voltage shall be applied to the capacitors for a minimum
		of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.
		在未加電壓下情形下,電容器放置於環境溫度 <b>85℃ 1000</b> 小時後 在 <b>20</b> ℃ 的環境下測試需符合標準.
14	Shelf life	
1-7	高溫無負荷	測試時須放於室溫最最少24小時不超過48小時,印加額定電壓30分鐘進行測試.
		SPEC: 1,000 hours, no voltage applied, at 85°C ∘
		After Test: U <sub>R</sub> to be applied for 30 minutes, 24 to 48 hours before measurement.
		They meet the specified value for endurance characteristics listed above.
		The following specifications shall be satisfied when the capacitors are restored to 20°C
		after the rated voltage applied for 2,000 hours at 85℃.
		印加額定電壓情形下, 電容器置於環境溫度 85℃ 2000 小時後 在 20℃環境下測試需符合標準.
	l and life	Spec: Capacitance change : Within ± 20% of the initial measured value.(Within ± 25% for 4V)
15	Load life 高溫負荷	靜電容量變化:最初測定值的 ± 20%以內.
	1–3,1112/4/13	Dissipation factor: 200% or less of initial specified value.
		損失角: 低於最初規定值的 <b>200%</b> .
		Leakage current : initial specified value or less.
		洩漏電流:低於規定值
		The capacitor shall be stored at temperature of -40 $\pm$ 3°C for 16(-0/+2) hours ,
		during which time no voltage shall be applied . And then the capacitor shall
		be subjected to standard atmospheric conditions for 16 hours or more,
		after which measurements shall be made .
		電容器貯存在 -40 ±3℃中 達 16(-0/+2) 小時, 其間不施加電壓.
		之後,在標準大氣壓中露置 16 小時以上,然後進行測試.
	Storage at low	
16	temperature	spec: Capacitance change : within ± 10% of the initial measured value.
	低溫貯存	電容量變化:最初測定值的 ± 10%以內.
		Dissipation factor: initial specified value or less.
		損失角 : 低於規定值 .
		Leakage current: initial specified value or less.
		洩漏電流:低於規定值.
		Appearance : no abnormal .
		外 觀 :無異常.



#### Marking:



#### 1.Series name:

N	K	D	G

1.Series name

Code	S	Н	Ν	K	D	G
Series	CS	СН	CN	CK	CD	CG

#### 2.Month code:

Code	1	4	7	0
Month	1~3	4~6	7~9	10~12

#### 3. Capacitance:

Code	10	100	1000
Capacitance ('uF)	10	100	1000

#### 4. Working voltage:

Code	4V	6.3V	10V	16V	25V	35V	50V	63V	100V
WV (V)	4V	6.3V	10V	16V	25V	35V	50V	63V	100V

# 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:

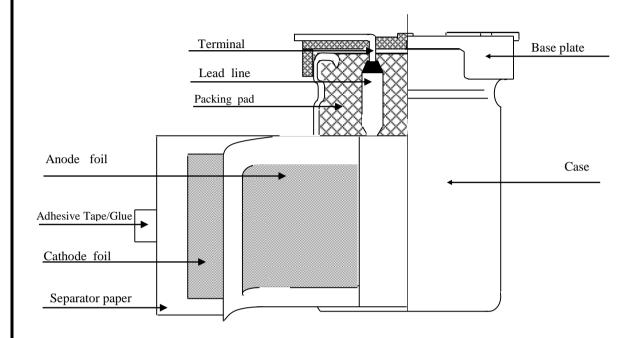
Hydrogen carbide liquid and halogen liquid can cause Aluminium Electrolytic Capacitor to corrode. Some of Safe and Unsafe detergent are as follows;

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)
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

# V-Chip Aluminum Electrolytic Capacitors

# Structure and materials



## V-Chip type capacitors component

Part name	Materials
Terminal	Tin Coated Copper Covered Steel Wire
Lead line	Aluminum 99.90%
Packing pad	Synthetic rubber
Anode Foil	Formed aluminum 99.9% over
Cathode Foil	Formed aluminum 98.1% over
Separator paper	Manila Espartos
Adhesive Tape/Glue	Phenylene Sulfide ;Glue:PVA
Base plate	Polyphenylene oxide;Glass fibre
Case	Aluminum 98%+PU coating

#### 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.

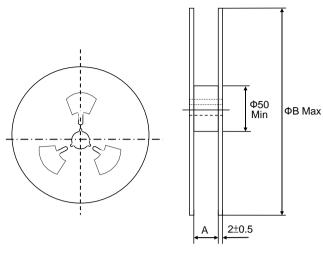
Rated Voltage(WV)	6.3	10	16	25	35	50	63	80	100
Surge Voltage(SV)	7.2	11.5	18.4	28.8	40.3	57.5	72.5	92	115

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.

# **Su'scon** CAPACITORS PACKING INFORMATION

#### ● V-CHIP REEL



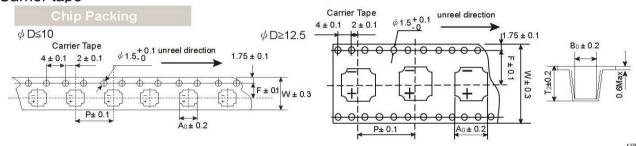
Package Qua	ntity
Size(ΦxL)	Q'ty/reel
Ф4	2000pcs
Ф5	1000pcs
Ф6.3×4~8L	1000pcs
Ф6.3×8.4L	800pcs
Φ8× (6~7L)	1000pcs
Ф8× (10~11)	500pcs
Ф10× (7~11)	500pcs
Ф10× (12~13)	400pcs
Ф10× (16~17)	300pcs
Ф12.5 × (13~14)	250pcs
Φ12.5/16 × (16~17)	200pcs
Ф16× (21~22)	125pcs
Ф18× (16~17)	150pcs
Ф18× (21~22)	100pcs
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(單位:mm)

Size	ψ4~5	φ 6.3	ψ8	ψ10	ψ 12.5	ψ16	ψ 18
Α	14	18	26	26	34	46	46
В	382	382	382	382	382	382	382

#### V-CHIP PACKAGE

## Carrier tape



(單位:mm)

Size	ltem							
(Φ×L)	W	Р	F	A <sub>o</sub>	B <sub>o</sub>	T <sub>2</sub>		
4 × 5.3~5.6L	12.0	8.0	5.5	5.0	5.0	5.8		
4 × 5.7~6.3L	12.0	8.0	5.5	5.0	5.0	6.3		
4 × 7L	12.0	8.0	5.5	5.0	5.0	7.5		
5 × 5.3~5.6L	12.0	12.0	5.5	5.0	5.0	5.9		
5 × 5.7~6.3L	12.0	12.0	5.5	5.0	5.0	6.3		
5 × 6.4~7.0L	12.0	12.0	5.5	5.0	5.0	7.6		
6.3 × 4.5L	16.0	12.0	7.5	7.0	7.0	4.8		
6.3 × 5.4~5.6 L	16.0	12.0	7.5	7.0	7.0	5.9		
6.3 × 5.7~6.3L	16.0	12.0	7.5	7.0	7.0	6.5		
6.3 × 7~8L	16.0	12.0	7.5	7.0	7.0	8.3		
6.3 × 8.1~9L	16.0	12.0	7.5	7.0	7.0	9.3		
8 × 6~7L	16.0	12.0	7.5	8.7	8.7	6.9		
8 × 10~11L	24.0	16.0	11.5	8.7	8.7	11		
10 × 7.7L	24.0	16.0	11.5	10.7	10.7	8.7		
10 × 10~11L	24.0	16.0	11.5	10.7/11.4(G)	10.7/11.4(G)	11/11.4(G)		
10 x 12~13L	24.0	16.0	11.5	10.7	10.7	13.1		
10 × 16~17L	24.0	16.0	11.5	10.7	10.7	17.5		
12.5 × 13~14L	32.0	24.0	14.2	13.4	13.4	15		
12.5 × 16~17L	32.0	24.0	14.2	13.4	13.4	17.5		
16× 16~17L	44.0	28.0	20.2	17.5	17.5	17.5		
16× 21~22L	44.0	28.0	20.2	17.5	17.5	23		
18× 16~17L	44.0	32.0	20.2	19.5	19.5	17.5		
18× 21~22L	44.0	32.0	20.2	19.5	19.5	23		

(G)" "Anti-vibration Structure"

#### 使用時注意事項:Precautions for users

- 1.輕拿輕放handle gently
- 2.取出托盤時,請用手托住紙盤底部,以免電容鬆散.When take the tray out, pls support the bottom of the paper plate with your hands to avoid loose