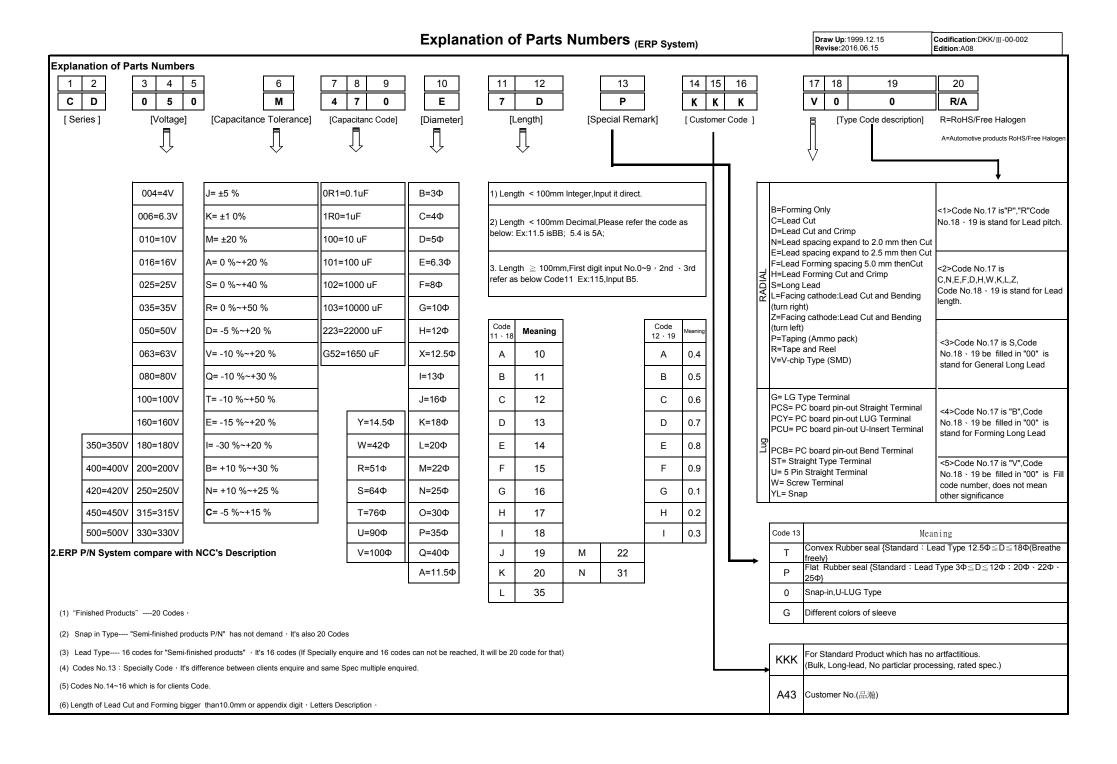
	RECORD OF REVISION												
NO.	VERSION	REASON		DATE	CHECKED	REMARKS							
1	A00	First Release		2021.12.02	王代燕								
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CD Specification For Approval

NO.	Customer Part No.	Specification	Su' scon Part No.
1		EC,47uF/50V	CD050M470E7DPKKKV00R
2			
3			
4			
5			
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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)

FOR APPROVAL

Chip Type



ΦD	4*5.4	5*5.4	6.3*5.4	6.3*7.7	8*10	10*10
A	1.8	2.1	2.4	2.4	2.9	3.2
В	4.3	5.3	6.6	6.6	8.3	10.3
С	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10	10
Н	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1

Customer:	Electrolytic Capacitors								Su'scon			
				CD	Series				Code			
Electric Characteris	Electric Characteristics:											
II 34A	Su'scon	Сар.	Сар.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	IMP	Load
品瀚	P/N	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100KHz	100KHz	Life
P/N			(%)	(V-DC)	(V-DC)	(℃)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25°C (Ω)Max	(hours)
	CD050M470E7DPKKKV00R	47	±20	50	57.5	105	6.3*7.7	23	10	185	1.40	2000

REMARKS:

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

6.3V~100V -55°C~ +105°C 2. Operating temperature:

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

6. Load Life: 3000 hours, with application of rated voltage at 105℃.

(L<10mm, 2000 hours;)

Capacitance Change: Within ±30% of initial value;

tanδ: 300% 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.

Capacitance Change: Within ±30% of initial value;

tanδ: 300% 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.

o. When have characteristic re	equested. Load life & si	ien me test	and etc.,	juugiiieii	t Stanuaru	reference	to our c	atalogue.		
•SPECIFICATION										
Leakage Current	After 2 minutes application of	rated valtage	lookogo	ourrent in	not more th	on 0 01 ov	or 2(11A)	whichous	r in grooter	
洩漏電流	Arter 2 minutes application of	After 2 minutes application of rated voltage,leakage current is not more than 0.01cv or 3(uA),whichever is greater.								
Dissipation Factor	Measurement Frequency:120	Measurement Frequency:120Hz. Temperature:20°C								
散逸因素(損失角)	Rate Voltage(V)	6.3	10	16	25	35	50	63	80	100
(tan δ)	tan δ (MAX)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07
Low Temperature Stability	Measurement Frequency:120	Measurement Frequency:120Hz.								
低溫特性	Rate Voltage(V)	6.3	10	16	25	35	50	63	80	100
Impedance Ratio(MAX)	Z(-25 ℃)/ Z(20 ℃)	4	3	2	2	2	2	2	2	2
阻抗比率(MAX)	Z(-55℃)/Z(20℃)	8	5	4	3	3	3	3	3	3
Frequency Coefficient of Per	missible Ripple Current									
Frequency(Hz)	120≦ F<1K	1	K ≦ F< ′	10K	10K	≦ F <10	0K		100K ≦ F	
≦33	0.35		0.70			0.90		1.00		
33~150	0.40	0.85		0.92			1.00			
>150	0.60		0.85	•		0.95		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

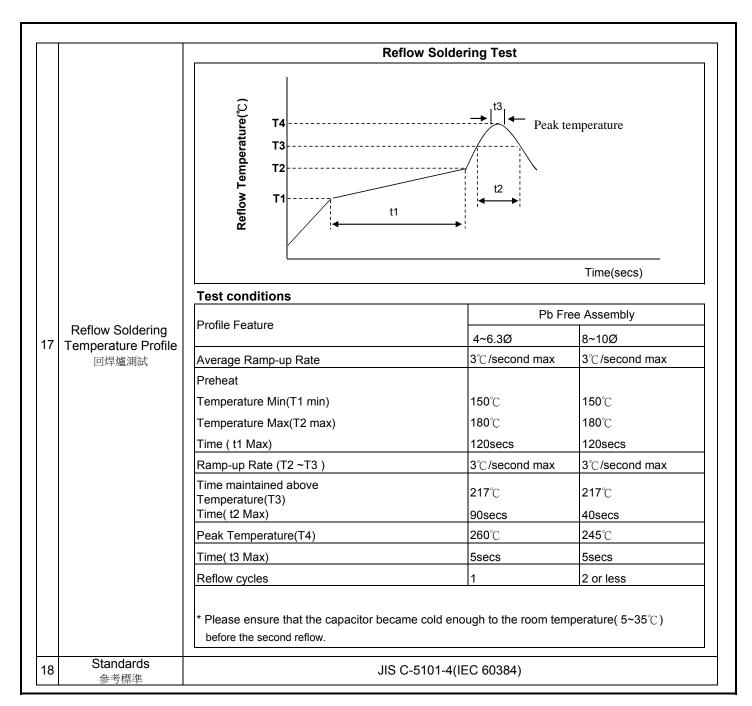
二. Electrical/Mechanical Characteristics 電氣/機械特性:

1	SERIES	CD							
2	Rated voltage 額定電壓	6.3~100VDC							
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: 6.3V~100V -55℃~+105℃							
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) 6.3 10 16 25 35 50 63 80 100 tan δ(Max) 0.30 0.26 0.22 0.16 0.13 0.10 0.08 0.08 0.07							
6	Leakage current 洩漏電流	DC leakage current shall be measured after 1~3 minutes application of the 在20 ℃下以工作電壓. 施加電流於串聯電容器之電阻1000Ω 1~3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)							

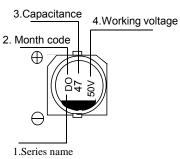
_	T	I												
			STEP		TEI	MPEF	RATU	IRE			ST	ORA	AGE TIME	
			步驟				度			放置時間			置時間	
			1			20 ℃	± 2 ℃			30 minutes				
			2	-55°C ± 3 °C							hours			
			3				± 2 ℃						minutes	
			4	105℃ ± 2℃								2	hours	
7	Characteristics of temperature 溫度特性	Step 2. N 支	Measure the capace 如定解電容量及阻抗 (Z Measure the impeda	r0) .(ance 別定阻 Zr / Z tance 定 解 e :wit ess	│Z│ at th 抗 (Zi rO) e and 電容量 thin : ± 20% than	., 20℃ erma f) (: less f d leal d leal d leal d leal d leal	だ,120 I bala Z ,- than s kage 電流: b of th	OHz ± ance 55°C spec curre	afte , 120 ified ent a itial r	r 2 h OHz ± valu It the	10% e. rmal sured) I bala d val	ue.	S.
8	Surge voltage Test 突波試驗	(switch of for 1,000 在常溫下,並放電 5.	urge voltage shall buff) with discharge for ocycles . Duration fixem (開關通路)額定突 5 ± 0.5 分鐘.這個周期 5 ± 0.5 分鐘.這個周期 6 cc c	or 5.5. of on by the second of the second o	5±0 e cyce 30 1000 e volt 電壓 ective R capa initial vithir 5±20 % or 200%	.5 millicle is ± 5 和 次.以 tage series 证 citor 電容 1 ± 20 0%以序 · less ecified	n. at r 6 ± 0 少,然後 6 ± 0 % of of in d valu	room 0.5 m 停止 0.5分 ttor(1k tthe i	i tem inute 施加(鐘為- Ω)	npera es . 開關 一循環 I me	ature 新路) 問期 (E. Th 突波で DC v VI Discl R2:流 Swite S:開	nis cycle shall be 電壓. voltmeter : DC 電壓計 harge resistor(1kΩ) 文電電阻 ch	

		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
		拉扯之姥皮.Soonin/min
		push pull scale
9	Adhesion Test 密著性試驗方法	seal tape 0:approx.10° carrier tape
\square		
		The leads are dipped in the solder bath of Sn at 245 ± 5 °C for 3 ± 0.5 seconds.
10	Solder ability	The dipping depth should be set at 1.5 ~ 2.0 mm.
10	焊錫性	端子浸沒在 245 ± 5 °C 的錫焊液中 3 ± 0.5 秒 . 浸沒深度設定為 1.5 ~ 2.0 mm .
		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 ± 5 ℃ for 30 ± 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.
	Resistance to	SPEC: No damage or leakage of electrolyte . 無損傷或電解液漏出 .
11	soldering heat	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.
12	Vibration 耐振性	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.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)
		spe(Capacitance: no unsteady. 靜電容量: 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.

		T
		Subject the capacitors to 40 \pm 2 $^{\circ}$ C and 90% to 95% relative humidity for 500 \pm 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 105℃, 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 105℃ 1000 小時後 在 20℃ 的環境下測試需符合標準.
	Shelf life	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.
14	高溫無負荷	Spec: 1,000hours, no voltage applied, at 105℃.
		After Test:UR 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 3,000 hours,(L<10mm, 2000 hours;) at 105℃
		印加額定電壓情形下, 電容器置於環境溫度 105℃3,000 小時
		(L<10mm, 2000 小時;)後 在 20℃環境下測試需符合標準.
15	Load life	SPEC: Capacitance change : within ± 30% of the initial measured value.
	高溫負荷	靜電容量變化:最初測定值的 ± 30%以內.
		Dissipation factor: 300% or less of initial specified value.
		損失角: 低於最初規定值的 300% .
		Leakage current : initial specified value or less.
		 洩漏電流:低於規定值
H		The capacitor shall be stored at temperature of -40 ± 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.
	Otamas: -41	A VICTOR OF THE PROPERTY OF TH
16	Storage at low 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 .
		順入内・地水水だ画・ Leakage current:initial specified value or less.
		洩漏電流:低於規定值.
		Appearance: no abnormal.
1 1		外 觀 :無異常.



Marking:



1.Series name:

1.conce name:										
Code	S	Н	N	K	D	G				
Series	CS	CH	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	80V
WV (V)	4V	6.3V	10V	16V	25V	35V	50V	80V

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:

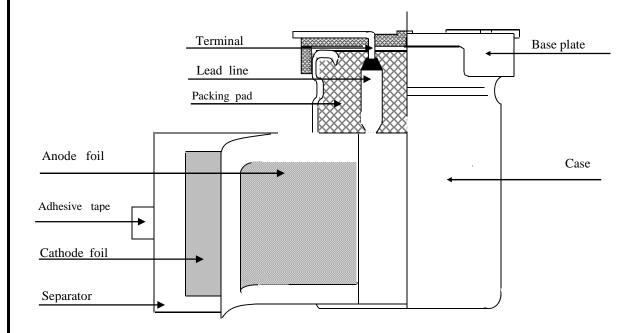
Hydrogen carbide liquid and halogen liquid can cause Aluminium Electrolytic Capacitor to corrode. Some of Safe and Unsafe detergent are as follows;

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

V-Chip Aluminum Electrolytic Capacitors

Structure and materials



V-Chip type capacitors component

Part name	Materials
Terminal	Tinned copper-ply wire
Lead line	Aluminum 99.92%
Packing pad	Synthetic rubber
Anode Foil	Formed aluminum 99.9% over
Cathode Foil	Formed aluminum 98.4% over
Separator	Manila Espartos
Adhesive Tape	Poly Imide film
Base plate	Polyphenylene oxide;Glass fibre
Case	Aluminum 99.5%+PET coating

公司名稱: 東莞冠坤電子有限公司

負責人姓名: 欧廷雄

發表日期: 2013年 06月06日

持续性有机污染物Persistent Organic Pollutants(POPs) 某些矿物金属(血汗金属)Some mineral metal 氢氟碳化合物(HFC)、全氟化碳(PFC)

挪威《消费性产品中禁用特定有害物质》POHS Prohibition on certain Hazardors substances in consumer products REACH 法规中指定的SVCH Substances of very high Concern(SVCH)Specified byEU REACH regulation



本公司特此保証:提供給貴公司,貴公司之子公司或協力廠商/(此后統稱"貴公司")的所有產品或部件中,決不包含以下所列之管理物質,符合標準,如在以后交易的產品或部件中出現含有以下所列之管理物質而產生的有形或無形的所有損失由我司承擔.

物質名稱 鍋以及鍋化合物 Cadmium and cadmium compounds 鉛以及鉛化合物 Lead and lead compounds 重金屬 Heavy metals 汞以及汞化合物 Mercury and mercury compounds 六價鉻化合物 Hexavalent chromium compounds 镍以及镍化合物 Nickel(Ni)and nickel compounds 多氯聯苯(PCB) Polychlorinated biphenyls(PCB) 多氯化苯(PCN) Polychlorinated naphthalenes(PCN) 多氯三联苯(PCT) Polychlorinated terphenyls(PCT) 有機氢化合物 Chlorinated organic 氯化烷烃(氯化石蠟)(CP)(Chlorinated paraffins) compounds 聚氯乙烯(PVC)以及聚氯乙烯混合物 Polyvinyl chloride(PVC) and PVC blends 其它有機氯化合物 Other chlorinated organic compounds 多溴聯苯(PBB) Polybrominated biphenyls(PBB) 包含十溴联苯醚(DecaBDE)的多溴联苯醚(PBDE)Polybrominated diphenylethers(PEDE)(including decabromodiphenyl ether 有機溴化合物 Brominated organic 四溴丙二酚(TBBP-A)(Tetrabromobisphenol-A) compounds 六溴环十二烷(HBCDD) Hexabromocyclododecane 其它有機溴化合物 Other brominated organic compounds 磷酸三硬脂精(2-氯二乙硫醚)(TCEP)(Tris(2-chloroethyl)phosphate) 三丁基锡化合物(TBT) TributyItin compounds 苯基锡化合物(TPT) Triphenyltin compounds(TPT) 二丁基锡化合物(DBT)DibutyItin(DBT)compounds 二辛基锡化合物(DOT)Dioctyltin(DOT)compounds 石棉 Asbestos 特定偶氦化合物 Specific azo compounds 甲醛 Formaldehyde 发泡聚苯乙烯(EPS)(Expanded Polystyrene) 放射性物质(Radioactive substances) 二苯基甲烷(Halogenated diphenyl methanes) 氧化铍Beryllium oxide 铍青铜Beryllium coppe 邻本二甲酸二异壬酯(DINP)、邻苯二甲酸二异癸酯(DIDP)、邻苯二甲酸二正辛酯(DNOP)、邻苯二甲酯二己酯(DNHP)、邻苯二甲酸二(C6-8支链)烷基酯,富C7(DIHP)、邻 苯二甲酸二(C7-11支链与直链)烷基酯(DHNUP)、邻苯二甲酸二甲氧乙酯(DMEP) 4-(1,1,3,3-四甲基丁基)苯酚(4-(1,1,3,3-tetramethylbutyl)phenol) 氘代双(2-甲氧基乙基)醚(Bis(2-methoxyethyl)ether) N',N-二甲基乙酰胺(DMAC)(,N,N-dimethylace3.tamide(DMAC)) 单甲基二溴二苯基甲烷(DBBT)(Ugilec 121,141,DBBT) 氢氟碳化合物(HFC)、全氟化碳(PFC) Hydrofluorocarbon(HFC),Perfluorocarbon(PFC) 全氟辛烷磺酸(及其盐PFOS) Perfluorooctane sulfonates(PFOS) 全氟辛烷酸(PFOA)及其盐与酯类(Perfluorooctyl acid and individual salta and esters of PFOA) 多环芳香烃化合物(PAHS)(Polycyclic Aromatic Hydrocarbons) 特定邻苯二甲酸盐(DEHP、DBP、BBP、DINP、DIDP、DNOP、DNHP、DIBP) 双酚A(Bisphenol-A) 甲苯麝香及酮麝香)(Fragrance substance(Musk xylene and Musk ketone) 界面活性剂(DTDMAC, DODMAC/DSDMAC and DHTDMAC)(Surfactants) 五氯酚 (PCP)(Pentachlorphenol) 三氯沙(Triclosan) 砷以及砷化合物(Arsenic(AS)and arsenic compounds) 锑以及锑化合物(Antimony(Sb)and its compounds) 铍以及铍化合物(Beryllium(Be)and its compounds) 铋以及铋化合物(Bismuth(Bi)and its compounds) 硒以及硒化合物(Selenium(Se)and its compounds) 富马酸二甲酸(DMF)(Dimethylfumarate) 三氧化二砷、五氧化二砷Diarsenic trioxide,Diarsenic pentaoxide 特定苯并三氨唑 Specific benzotriazole 二氯化钴 Cobalt chloride 臭氧层破坏物质(ODS) Radioactive substances 氟(Fluorine) 氨(Chlorine) 溴(Bromine) 碘(Lodine) 聚萘(氯原子3个以上) 双三丁基锡氧化物(TBTO) 二醇二甲醚Bis(2-methoxyethyl)phenol 乙二醇二甲醚(EGDME)Ethylene glycol dimethyl ether 高氯酸盐perchlorates 黄磷,红磷Phosphorus and red phosphorus 镓元素Gallium elemental only

品管課

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 (Note1). (However, no volgae treatment is required if the electrolytic capacitor is allowed to guarantee 2 years at 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.

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.

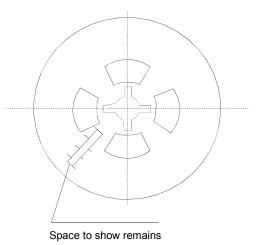
Rated Voltage(WV)	6.3	10	16	25	35	50	63	80	100
Surge Voltage(SV)	7.2	11.5	18.4	28.8	40.3	57.5	72.5	92	115

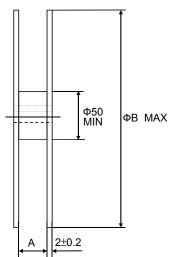
For methods of testing, refer to JIS C 5101-1, JIS C 5101-4.

* 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







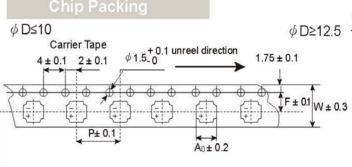
Package Quantity						
Size(Φ×L)	Q'ty/reel					
Ф4	2000pcs					
Ф5	1000pcs					
Ф6.3	1000pcs					
Ф8× (6~11)	500pcs					
Ф10× (6~11)	500pcs					
Ф10× (12~14)	400pcs					
Ф12.5 × (13~14)	250pcs					
Ф16× (16~18)	200pcs					

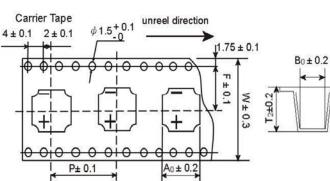
(單位:mm)

Size	<i>φ</i> 4~5	φ 6.3	ψ8	ψ 10	ψ 12.5	ψ16
Α	14	18	26	26	34	46
В	382	382	382	382	382	382

■ V-CHIP PACKAGE

Carrier tape





(單位:mm)

Size	Item								
(Φ×L)	W	Р	F	Α	B _o	T ₂			
4 × 5.4	12.0	8.0	5.5	5.0	5.0	5.8			
5 × 5.4	12.0	12.0	5.5	6.0	6.0	5.8			
6.3 × 4.5	16.0	12.0	7.5	7.0	7.0	4.8			
6.3 × 5.4	16.0	12.0	7.5	7.0	7.0	5.8			
6.3 × 6.0	16.0	12.0	7.5	7.0	7.0	6.5			
6.3 × 7.7	16.0	12.0	7.5	7.0	7.0	8.2			
8 × 6.2	16.0	12.0	7.5	8.7	8.7	6.8			
8 × 10	24.0	16.0	11.5	8.7	8.7	11.0			
10 × 10	24.0	16.0	11.5	10.7	10.7	11.0			
10 × 12.5	24.0	16.0	11.5	10.7	10.7	13.0			
12.5 × 13.5	32.0	24.0	14.2	13.4/13.7(G)	13.4/13.7(G)	15.0			
16× 16.5	44.0	28.0	20.2	17.5	17.5	17.5			

(G)" "Anti-vibration Structure"