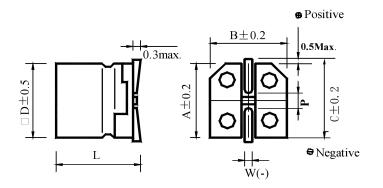
	CHA 容器制造商										
	S	规格承认 Specification for	-								
客户行	名称:										
(Custome	er Name)										
产品	名称:	贴片铝电解电	容器								
(Product	t Name)	SMD Alumin	um Electrolytic	Capacitor							
客户料	1 号 :										
(Customer p	art number)										
科尼盛料号: F Z1 00 U F2 5V9 0 RV 00 63											
(KNSCHA	number)										
型 号#	观格:	FZ 100UF25V	6.3*7.7								
(Specific	cations)	FZ 100UF25V	6.3*7.7								
	制造			客户							
	(Manufacture) Approval			(Customer)							
拟 制	Approval 审核		检验	Approval 审核	核准						
(Fiction)	(Chief)	(Approval)	(Inspect)	(Chief)	(Approval)						
4-151-44		++ - - -									
対淑芬	刘军军										
东莞市科尼图			-								
	No. The 8th Floor, A3 Building, R&D Center (Phase I), Songshan Lake Intelligent Valley, Liaobu Town, Dongguan City.										
TEL:0769-8369	-	-	wn, Dongguan C -83861559	.nty							
			vww.knscha.com		1.7.9 1 .77						

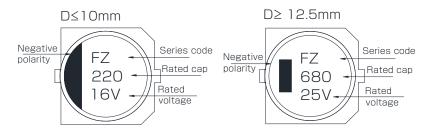
Product Dimensions



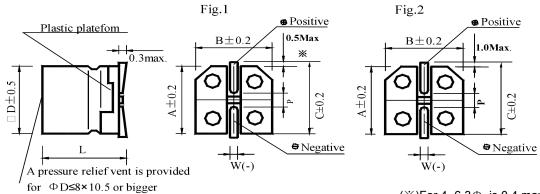
	Unit: mm
Φ	6. 3
L	7.7±0.4
Α	6. 6
В	6. 6
C	7.3
W	0.5~0.8
Р	2.2±0.2

Items				Performance			
Category Temperature Range			-55°C~105	°C			
Rated Voltage V _R			25 V				
Capacitance C _R			100µF			(12	20Hz,20℃)
Capacitance Tolerance			± 20 %)		(12	20Hz,20℃)
Surge Voltage $V_{\rm S}$			32VDC				
Leakage Current (20°C)			$I_{LEAK} \leq$	25 µA		After	2 minutes
Tan δ			≤ 0.1	6		(12	20Hz,20℃)
Impedance max.			≤ 0.6Ω			(100)KHz,20℃)
Ripple Current (I _{AC, R} / rms)			230 mA			(100k	(Hz,105℃)
Low Temperature Characteristics at 120 Hz		Impedance ratio Z (-25°C) Z (+20°C) 3 Z (-55°C) Z (+20°C) 5					
Ripple Current (A) and Frequency Multipliers	Frequency Multiplie	. ,	50,60 0.60	120 0.70	1K 0.80	10k up 1.00	
Endurance and Shelf Life Test	ItemsTest TimeCap. ChangeTan δ Leakage Current	Within	rance D Hrs at 105 n ±30 % of than 300% n specified v		at 105°C D % of initial valu 300% of specifie		
Standards			JIS C	5101-1, -18, IE	C 60384-4		
Remarks			RoHS	Compliance, H	alogen-free		

Marking: Each capacitor shall be marked with the following information. Marking color: Black



Please refer to "Precautions and Guidelines for Aluminum Electrolytic Capacitors" section in Jarson's catalog for further details.



^(%)For 4~6.3 is 0.4 max.

D ^{±0.5}	L	A ^{±0.2}	B ^{±0.2}	C ^{±0.2}	w	P ^{±0.2}	Fig.No.
4	5.4 ^{±0.4}	4.3	4.3	5.1	0.5to0.8	1.0	1
4	5.8 ^{±0.4}	4.3	4.3	5.1	0.5to0.8	1.0	1
4	7.0 ^{±0.4}	4.3	4.3	5.1	0.5to0.8	1.0	1
5	5.4 ^{±0.4}	5.3	5.3	6.1	0.5to0.8	1.3	1
5	5.8 ^{±0.4}	5.3	5.3	6.1	0.5to0.8	1.3	1
5	7.0 ^{±0.4}	5.3	5.3	6.1	0.5to0.8	1.3	1
6.3	5.4 ^{±0.4}	6.6	6.6	7.2	0.5to0.8	2.2	1
6.3	5.8 ^{±0.4}	6.6	6.6	7.2	0.5to0.8	2.2	1
6.3	7.7 ^{±0.4}	6.6	6.6	7.2	0.5to0.8	2.2	1
6.3	7.9 ^{±0.4}	6.6	6.6	7.2	0.5to0.8	2.2	1
8	6.5 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
8	7.9 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
8	10.5 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
8	11.5 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
8	12.5 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
8	13.5 ^{±0.5}	8.3	8.3	9.2	0.7to1.2	3.1	1
10	7.7 ^{±0.5}	10.3	10.3	11.2	0.7to1.2	4.4	1
10	10.5 ^{±0.5}	10.3	10.3	11.2	0.7to1.2	4.4	1
10	11.5 ^{±0.5}	10.3	10.3	11.2	0.7to1.2	4.4	1
10	12.5 ^{±0.5}	10.3	10.3	11.2	0.7to1.2	4.4	1
10	$13.5^{\pm 0.5}$	10.3	10.3	11.2	0.7to1.2	4.4	1
12.5	13.5 ^{±0.5}	13.0	13.0	14.0	1.0to1.4	4.4	2
12.5	16.0 ^{±0.5}	13.0	13.0	14.0	1.0to1.4	4.4	2
16	16.5 ^{±0.5}	17.0	17.0	18.0	1.0to1.4	6.4	2
16	21.5 ^{±0.5}	17.0	17.0	18.0	1.0to1.4	6.4	2
18	16.5 ^{±0.5}	19.0	19.0	20.0	1.0to1.4	6.4	2
18	21.5 ^{±0.5}	19.0	19.0	20.0	1.0to1.4	6.4	2

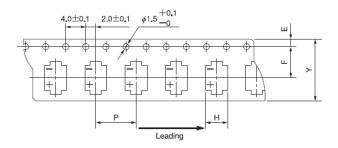
Unit:mm

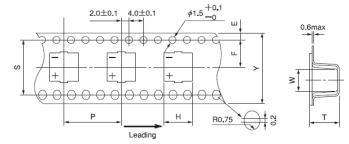
Product Code Guide - SMD Type

1. Carrier Tape

Fig. 1-1 Carrier tape $\phi D \le 10$

Fig. 1-2 Carrier tape ¢D≥12.5



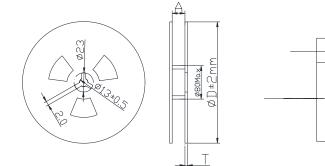


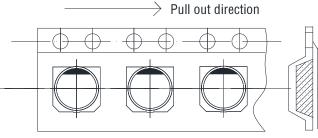
								Unit	mm
Size(¢D×L)	$Y^{\pm 0.3}$	H ^{±0.2}	W ^{±0.2}	P ^{±0.1}	E ^{±0.1}	F ^{±0.1}	T ^{±0.2}	S ^{±0.1}	Fig.No.
φ4×5.4	12.0	5.0	5.0	8.0	1.75	5.5	6.0	_	1-1
φ4×5.8	12.0	5.0	5.0	8.0	1.75	5.5	6.5	_	1-1
φ4×7.0	12.0	5.0	5.0	8.0	1.75	5.5	7.5	_	1-1
φ5×5.4	12.0	6.0	6.0	12.0	1.75	5.5	6.0	_	1-1
φ5×5.8	12.0	6.0	6.0	12.0	1.75	5.5	6.5	_	1-1
φ5×7.0	12.0	6.0	6.0	12.0	1.75	5.5	7.5	_	1-1
ф6.3×5.4	16.0	8.7	8.7	12.0	1.75	7.5	6.0	_	1-1
ф6.3×5.8	16.0	8.7	8.7	12.0	1.75	7.5	6.5	_	1-1
ф6.3×7.7	16.0	8.7	8.7	12.0	1.75	7.5	8.2	_	1-1
ф6.3×7.9	16.0	8.7	8.7	12.0	1.75	7.5	8.5	_	1-1
φ8×6.5	16.0	8.7	8.7	12.0	1.75	7.5	7.2	_	1-1
φ8×10.5	24.0	8.7	8.7	16.0	1.75	11.5	11.5	_	1-1
φ8×11.5	24.0	8.7	8.7	16.0	1.75	11.5	12.0	_	1-1
φ8×12.5	24.0	8.7	8.7	16.0	1.75	11.5	13.5	_	1-1
φ8×13.5	24.0	8.7	8.7	16.0	1.75	11.5	14.5	_	1-1
φ10×7.7	24.0	10.7	10.7	16.0	1.75	11.5	8.5	—	1-1
φ10×10.5	24.0	10.7	10.7	16.0	1.75	11.5	11.5	—	1-1
φ10×11.5	24.0	10.7	10.7	16.0	1.75	11.5	12.5	—	1-1
φ10×12.5	24.0	10.7	10.7	16.0	1.75	11.5	13.5	_	1-1
φ10×13.5	24.0	10.7	10.7	16.0	1.75	11.5	14.5	_	1-1
φ12.5×13.5	32.0	13.9	13.9	24.0	1.75	14.2	14.5	28.5	1-2
φ12.5×16.0	32.0	13.9	13.9	24.0	1.75	14.2	16.5	28.5	1-2
φ16×16.5	44.0	17.5	17.5	28.0	1.75	20.2	17.5	40.5	1-2
φ16×21.5	44.0	17.5	17.5	28.0	1.75	20.2	22.5	40.5	1-2
φ18×16.5	44.0	19.5	19.5	32.0	1.75	20.2	17.5	40.5	1-2
φ18×21.5	44.0	19.5	19.5	32.0	1.75	20.2	22.5	40.5	1-2

2. Reel Package

Fig. 2-1



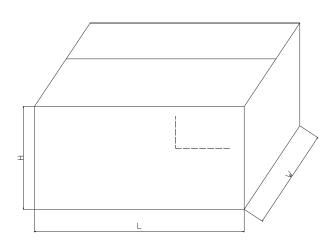




Case size	Φ4~5	Ф6.З	Ф8×6.5	Φ8	Φ10	Ф12.5	Ф16~18
А	14	18	18	26	26	34	46
D	380	380	380	380	380	380	380
Т	3.0	3.0	3.0	3.0	3.0	3.0	3.0

3. Packing specification

Fig. 3-1 Carrier Tape

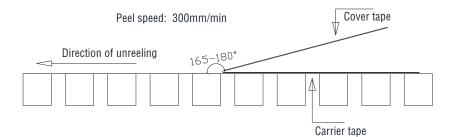


		Unit:p	cs
Case size	Q'ty / Reel	Reels/Box	Q'ty/Box
Φ4	2,000	12	24,000
Φ5	1,000	12	12,000
Ф6.З	1,000	10	10,000
Ф8×6.5	1,000	10	10,000
Ф8×10.5	500	10	5,000
Ф8×11.5~13.5	400	10	4,000
Ф10×7.7~10.5	500	10	5,000
Ф10×11.5~13.5	400	10	4,000
Ф12.5×13.5	250	6	1,500
Ф12.5×16	200	6	1,200
Ф16×16.5	125	5	625
Ф16×21.5	100	5	500
Ф18×16.5	125	5	625
Ф18×21.5	100	5	500

Case size	Φ4~5	Ф6.З	Ф8×6.5	Φ8	Φ10	Ф12.5	Ф16~18
Н	260	260	260	340	340	240	260
W	395	395	395	395	395	395	395
L	390	390	390	390	390	390	390

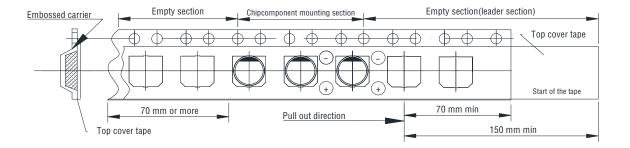
4. Sealing Tape Reel Strength

- 4.1 Peel angle: 165 to 180°Crefered to the surface on which the tape is glued.
- 4.2 Peel speed: 300mm per minutes
- 4.3 The peel strength must be 0.1 \sim 0.7N under these conditions.



5. Packing Method

- 5.1 The leader length of the tape shall not be less than 150 mm including 10 or more embossed sections inwhich no parts are contained.
- 5.2 the core has an empty section with a length less than 60mm, and the perforation carrier is only suitable for ϕ D \leq 5mm.



Endurance characteristic:

No.	Item	(ç	Specifi	cation							
		Capacitor is placed i follow specific regula regulation is " +25°C		Сар	acitanc	e chang	e With	nin ± 1	0% of i	nitial value				
1	Rotational Temperature	+25℃ (3 min.) → +	105℃	(30 mir	n.) → +2	25℃ (3		Tanδ			With	Within specified value		
	Test	min.)", and it is called a cycle. The test totals 10 cycles, and then the capacitor shall be subjected to standard atmospheric conditions for 4 hours, after						Leakage Current			With	nin spec	cified va	lue
			which measurements shall be made.						sical		No t	proken a	and und	amaged
		1.Capacitors shall be	e place	d in ove	n with ap	oplicatio	n	Capacitance change			e With	nin ± 3	0% of i	nitial value
	High Temperature	of rated voltage 3,0 6.3mm & 8 $\phi \times 6.5L$		Tan	δ		Less valu		300% a	f specified				
2	Endurance	5,000+72/-0 hrs fo 2.hen the capacitor	shall be	e subjec	cted to s	standard	1	Lea	kage Ci	urrent	With	nin spec	cified va	lue
	Life Test	atmospheric condition measurements shall			sical					amaged				
	High	After 1,000 +48 / -0 hours test at 105℃ without						Сар	acitanc	e chang				nitial value
З	Temperature Unload Life	rated voltage. And th	rated voltage. And then the capacitor shall be subjected to standard atmospheric conditions fo						δ		valu	е		f specified
	Test	4 hours, after which							kage Ci	urrent		nin spec		
	1031						-		sical		-			amaged
		Capacitors shall be hours in an atmosph					↓ ├	Capacitance change				Within \pm 10% of initial valu Less than 150% of specifie		
4	Humidity	3℃.And then the ca					-	Tanδ				value		
	Test	standard atmospher			-		ł	Leakage Current				Within specified value		
		afterwhich measurer	ments s	shall be	made.		Ī	Phy	sical		No t	oroken a	and und	amaged
								Сар	acitanc	e chang	e With	Within \pm 10% of initial value		
	Low	Capacitors are place						Tanδ			With	Within specified value		
5	Temperature	hours. And then the standard atmospher			-			Leakage Current			With	Within specified value		
	Test	which measurement						Physical				No broken and undamaged		
		1. Fix it at the point 4	1 mm or	less fro	om bodv.	For one	s	Capacitance change			e With	Within \pm 10% of initial value		
		of 12.5 mm or more						Tanδ			With	nin spec	cified va	lue
6	Vibration Test	length, use separate 2. Direction and duri directions mutually e	ng of vi	bration:				Lea	kage Cu	urrent	With	nin spec	ified va	lue
	Test	hours). 3. Frequency: 10 to 5 4. Total amplitude :	55 Hz re	eciproca			e.	Phy	sical		No t	oroken a	and und	amaged
		he capacitor shall be			1 000 c	volae at	+	Can	acitano	e chang	e With	nin + 2	n‰ ∩f i	nitial value
		15 ~ 35℃. Protectiv	ve serie	s resist	tor a 1K	Ω		Tan				s than 2		f specified
		each consisting of a charge period of 30 \pm 5 seconds, followed by discharge period of approximately 5.5 minutes.						Lea	kage Ci	irrent		nin spec	cified va	lue
	Surge								sical					amaged
7	Voltage	Applying voltage:					-							
/	Test			2	25	35	50	63	80	100				
	1631	Surge Voltage(V)	4.6	7.3	11.5	17.5	28	8.8	40.3	57.5	72.5	92	115	
		Rated Voltage(V)	160	200	250	315		50	400	420	450	500	525	
		Surge Voltage(V)	176	220	275	347		85	440	462	495	550	578	
								-	-					I

No.	Item		Conditions			S	pecifica	tion	
			e fully immersed in the sol t a temperature of 245 ±		Capacitar	nce changi	Within ±	: 10% of	initial value
8	Solderability		older coating must be mor	e than	Tan δ		Within sp	pecified v	alue
	Test	95% Dipping speed: 2	5±2.5mm/s		Leakage	Current	Within sp	pecified v	ralue
		Dipping time: 3±			Physical		No broke	n and un	damaged
	Solder Heat-Resistance	1.IR Reflow			Capacitar	nce chang			initial value
	Test	T3	\wedge		Tanδ		Within sp	pecified v	alue
		Temperature(°C)	t1 t2		Leakage	Current	Within sp	pecified v	alue
			Time(sec) —	<u> </u>	Physical		No broke	n and un	damaged
		Rated voltage	- (\/)		4-50	63 up	4-1	00	160 up
		Case size (ϕ)			1-6.3	4-6.3	8-		8-18
			Temp.(T1~T2,°C)			150)-180		
		Preheat	Time (t1)(Max,secs)			1	00		
9			Temp.(T3,℃)	217	230	217	217	230	217
		Duration	Time (t2)(Max,secs)	90	40	60	60	40	40
		Deal	Temp.(T4,°C)		260	250	25	50	245
		Peak	Time (t3,secs)				5		
		Reflow cycles	3			2 0	r less		
		*Please conta*Please ensurthe second response	e: $350 \pm 5^{\circ}$ le of soldering Iron: $3 + 1/-$ act our representative if yo re that the capacitor beca	our conc me cold	l enough to	the room 1		re (5°C ~	· 35°C) before
10	Venting Test	 2. Test condition AC test: The ofrated volved DC test: Appendix the offer the offer test: Appendix the offer test: Appendix the offer test of test	tage or 250Vrms AC which oplying inverse DC rated v e diameter: $\phi D \leq 12.5$ mm $\phi D > 12.5$ mm essure relief vent operate ent (terminal and metal for essure relief device does	ected a hever is oltage v m: 2 A I n: 10 A ed, the il etc.) o	cross an a the lower. with curren DC max. DC max. capacitor a pr cover.	oplying 50 t to the ca shall avoid	pacitor. any dang	ger of fire	e or explosion

No.	Item	Cond	litions				
11	Land Pattern	Recommended pad pattern and size	Case size Φ4 Φ5 Φ6.3 Φ8 Φ10 Φ12.5 Φ16 Φ18	G 1.0 1.4 1.9 3.0 4.0 4.0 6.0 6.0	U Land size Y 2.6 3.0 3.5 4.0 4.0 5.8 6.8 6.8 8.0	Init:mm X 1.8 1.8 1.8 2.5 2.5 3.0 3.5 3.5	
12	Standards	Satisfies Characteristic JIS C 5101-1, -18					

Conforming to RoHS and European REACH Regulation

The capacitors do not intentionally contain the banned substances (Cd, Pb, Hg, Cr(VI), PBB, PBDE, DEHP, BBP, DBP, DIBP) listed in "RoHS directrive : (EU) 2015/863" and its concentration is less than the threshold values.

Our products are "articles without any intended releas" besed published on 26 May2008. They are not applicable for "Registration" for European REACH Regulation Article 7 (1).

Precautions and Guidelines for Aluminum Electrolytic Capacitors

1. Guidelines for Circuit Design (General / Application guidelines for using electrolytic capacitors)

Selecting of a right capacitor is a key to a good circuit design.

(1)Polarity

Most of the aluminum electrolytic capacitors are polarized. Therefore, they must be installed with the correct polarity. Usage in the reverse polarity results into a short-circuit condition that may damage or even explode the capacitor. In addition, it may influence circuit functionality. A bi-polar electrolytic capacitor should be installed when polarity across a capacitor is unstable / reversible. It should be, however, noted that usage of both polar and bi-polar capacitors are limited to DC applications. They must NOT be used for AC application.

(2)Operating Voltage

Applied DC voltage must not exceed rated voltage of the capacitor. Applying higher voltage than its rated voltage across a capacitor terminals cause overheating due to higher leakage currents and capacitor dielectric/insulation deterioration that will ultimately affect a capacitor's performance. The device, however, is capable of working under short-time transient voltages such as DC transients and peak AC ripples. Reverse voltages higher than 1 Volt with a specified temperature limit or AC voltages are not permissible. Overall, using capacitors at recommended operating voltages can prolong its lifespan. Note that the result of DC voltage overlapped with peak ripple voltage should not exceed rated voltage.

(3)Ripple Current

One of the key functions of any capacitor is removal of the ripple current i.e. the RMS value of AC flowing through a capacitor. But, a ripple current higher than rated ripple current will drop resultant capacitance, cause undue internal heating and thus reduces life span of the capacitor. In extreme cases, internal high temperature will cause the pressure relief vent to operate while destroying the device. Overall, it is important to note that an electrolytic capacitor must be used within a permissible range of ripple current. Indicators like temperature coefficient of allowable ripple current are generally sued to determine life expectancy of the capacitor, but to avoid related complex calculations and for the sake of simplicity, we haven't provided temperature coefficient in the catalogue. But it offers key indicators like maximum operating temperature for calculation of life expectancy at a given temperature.

(4)Operating Temperature

Capacitors should be used within a permissible range of operating temperatures. Using capacitor at a higher temperature than maximum rated temperature will considerably shorten its life. In the worst-case scenario, high temperature can cause pressure relief vent to operate and the device will get destroyed. Using capacitors at an ambient room temperature assure their longer life.

(5)Leakage Current

Leakage current flows through a capacitor when DC voltage is applied across it. Leakage current varies with changes in ambient temperature and applied DC voltage level and its time of application. Overvoltage situation, presence of moisture, and thermal stresses, especially occurring during the soldering process can enhance leakage current. Initial leakage current is usually higher and does not decrease until voltage is applied for a certain period of time. It is recommended to keep initial leakage current within specified levels.

(6)Charge and Discharge

Regular electrolytic capacitors are not suitable for rapid charging/discharging circuits. Such usage may either cause reduction in overall capacitance or damage due to overheating. Jarson provides special assistance for selecting appropriate capacitors for rapid charging/discharging circuits.

(7)Surge Voltage

The Surge voltage rating is referred as the maximum DC overvoltage that may be applied to an electrolytic capacitor for a short time interval of 30 seconds at infrequent at infrequent time intervals not exceeding 5.5minutes with a limiting resistance of 1k Ω . Unless otherwise described on the catalogue or product specifications, please do not apply a voltage exceeding the capacitor's voltage rating. The rated surge voltages corresponding to rated voltages of electrolytic capacitors are presented as follows:

Rated Voltage(V)	4	6.3	10	16	25	35	50	63	80	100
Surge Voltage(V)	4.6	7.3	11.5	17.5	28.8	40.3	57.5	72.5	92	115
Rated Voltage(V)	160	200	250	315	350	400	420	450	500	525
Surge Voltage(V)	176	220	275	347	385	440	462	495	550	578

(8)Surge Voltage

The capacitor shall NOT be exposed to:

(a)Fluids including water, saltwater spray, oil, fumes, highly humid or condensed climates, etc.

(b)Ambient conditions containing hazardous gases/fumes like hydrogen sulfide, sulfurous acid, nitrous acid, chlorine or bromine gas, ammonia, tec.

(c)Exposed to ozone, ultraviolet rays and radiation.

(d)Severe vibrations or physical shocks that exceeds the specifications mentioned in this catalogue.

(9)Circuit Design Consideration

(a)Please ensure whether application, operating and mounting conditions satisfy the conditions specified in the catalog before installation of a capacitor. Please consult Jarson, if any of the conditions are beyond the conditions specified in the catalog.

(b)Heat-generating components or heat sinks should not be placed closer to Aluminum electrolytic capacitors on the PCB to avoid their premature failure. A cooling system is recommended to improve their reliable working.

(c)Electrical characteristics and performance of aluminum electrolytic capacitors are affected by variation of applied voltage, ripple current, ripple frequency and operating temperature. Therefore, these parameters shall not exceed specified values in the catalog.

(d)Aluminum capacitors may be connected in the parallel fashion for increasing total capacitance and/or for achieving higher ripple current capability. But, such design may cause unequal current flow through each of the capacitors due to differences in their impedances.

(e)When two or more capacitors are connected in series, voltage across each capacitor may differ and fall below the applied voltage. A resistor should be placed across each capacitor so as to match applied voltage with voltage across a capacitor.

(f)Please consult Jarson while selecting a capacitor for high- frequency switching circuit or a circuit that undergoes rapid charging/ discharging.

(g)Standard outer sleeve of the capacitor is not a perfect electrical insulator therefore is unsuitable for the applications that requires perfect electrical insulation. Please consult Jarson, if your application requires perfect electrical insulation.

(h)Tilting or twisting capacitor body is not recommended once it is soldered to the PCB.

2.Caution for Assembling Capacitors

(1)Mounting

(a)Aluminum electrolytic capacitors are not recommended to reuse in other circuits once they are mounted and powered in a circuit.

(b)Aluminum electrolytic capacitors may hold static charge between its anode and cathode, which is recommended to be discharged through a $1k\Omega$ resistor before re-use.

(c)A long storage of capacitors may result into its insulation deterioration. This can lead to a high leakage current when voltage is applied that may damage the capacitor. Capacitors following a long storage period must undergo voltage treatment/re-forming.

Capacitors are charged by applying rated DC voltage through a resistor of $1k\Omega$ in series at least for an hour. It is recommended to increase applied voltage gradually using a voltage regulator unit once capacitors are assembled on the board. The charging should be followed by discharging through a $1K\Omega$ resistor.

(d)Please check capacitor rated voltage before mounting.

(e)Please check capacitor polarity before mounting.

(f)Please don't drop capacitor on the floor / hard object.

(g)Please don't deform the capacitor during installation.

(h)Please confirm whether the lead spacing of the capacitors match with its pad spacing / footprint on PCB prior to installation.

(i)Please avoid excessive mechanical shocks to capacitor during the auto-insertion process, inspection or centering operations.

Please don't place any wiring or circuit over the capacitor's pressure relief vent. The pressure relief vent may fail to open if adequate clearance space is not provided. Following table shows minimum clearance space required for different case diameters.

Case Diameter	φ6.3~φ16	φ18~ φ35	ϕ 40 or above
Clearance(mm)	2 mm	3 mm	5 mm

(2)Soldering

(a)Please confirm that soldering conditions, especially temperature and contact time are within our specifications. Dip or flow soldering temperature should be limited at 260 ± 5 °C for 10 ± 1 sec while manual soldering using soldering iron should be limited at 350 ± 5 °C for 3 + 1/-0 seconds. Please do not dip capacitor body into molten solder. A capacitor's life will be negatively affected if these conditions are violated.

(b)Storage of capacitors in high humidity conditions is likely to affect the solder-ability of lead wires and terminals.

(c)Reflow soldering should NOLY be used for SMD type capacitors. The temperature and duration shall not exceed the specified temperature and duration in the specification. If the temperature or duration is higher than the value specified, please consult Jarson before usage.

(d)Standard aluminum electrolytic capacitors are not designed to withstand multiple reflow processes. Please consult Jarson if repeated reflowing is unavoidable.

(e)Incorrect mounting on PCB with improper external strength applied on its lead wires or capacitor body after soldering may damage a capacitor's internal structure, cause short circuit, or lead to high leakage current issues. Do not bend or twist the capacitor body after soldering. Referring to the drawings below only case (i) is recommended.

(i)Correct soldering

(ii)Hole-to-hole spacing on PCB differs from the lead space of lead wires.

(iii)Lead wires are bent after soldering.

(iv)Capacitor body doesn't stand vertical on PCB after soldering.

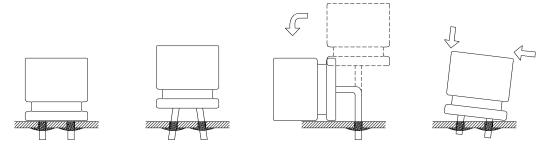
(3) Cleaning Circuit Boards after Soldering

(a)Following chemicals are not recommended for cleaning: Solvent containing halogen ions, Alkaline solvent, Xylene, Acetone, Terpene, petro-based solvent.

(b)Recommended cleaning conditions:

Fatty-alcohol - Pine Alpha ST-100S, Clean Through-750H and IPA (isopropyl alcohol) are examples of the most acceptable cleaning agents. Temperature of the cleaning agent must not exceed 60°C. Flux content in the cleaning agents should be limited to 2 Wt. %. Overall length of cleaning process (e.g., immersion, ultrasonic or other) shall be within 5 minutes (5 \sim 7mm height within 3 minutes). CFC substitute cleaning agents such as AK225AES can also be used for cleaning. In this case, its temperature shall not exceed 40 C and cleaning process (e.g., immersion, ultrasonic or other) shall be completed within 2 \sim 3 minutes. After cleaning capacitors should be dried with hot air for at least 10 minutes along with the PCB. Temperature of hot air shall not exceed maximum category temperature of

the capacitor. Insufficient drying may cause appearance defects, sleeve shrinkage, and bottom-plate bulging. However, usage of this CFC substitute must completely regulated for protection of environment.



3. Maintenance Inspection

Periodical inspection of aluminum capacitors is absolutely necessary especially when they are used with industrial equipment. The following items should be checked:

(1)Appearance: Bloated, vent operated, leaked, etc.

(2)Electrical characteristic: Capacitance, Tan δ , leakage current, and other specified items listed in specification.

Jarson recommend replacing the capacitors if any of the abovementioned items fail to meet specifications.

4.Storage

(1)The most suitable conditions for aluminum capacitor storage are 5 $^{\circ}$ C ~ 35 $^{\circ}$ C and indoor relative humidity less than 75%. High temperature and/or humidity storage is detrimental to the capacitors.

(2)Capacitors shall not be stored in wet or damp atmospheres containing water, brine, fumes or oil.

(3)Capacitors storage area shall neither be exposed to hazardous gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonium, etc. nor to acidic or alkaline solutions.

(4)Capacitors shall not be exposed to ozone, ultraviolet rays or radiation.

5.Estimation of life time

$$\frac{\text{TOmax} - \text{Tr} \text{max}}{\text{Lr} = \text{Lo} \times 2 \quad 10}$$

Lr: Estimated lifetime (hours)

Lo: Base lifetime specified at maximum operating temperature with applied the DC voltage and the ripple current (hours)

To max: The core temperature that rated ripple current applied at maximum operating temperature.

Tr max: The core temperature that applied actual ripple current at ambient temperature.

6.Maintenance Inspection

Please consult with a local industrial waste disposal specialist when disposing of aluminum electrolytic capacitors.

7.Environmental Consideration

Jarson already have received ISO 14000 certificate. Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB, PBDE, DEHP, BBP, DBP and DIBP have never been using in capacitor. If you need "Halogen-free" products, please consult with us.

For further details, please refer to the following industrial standards:

IEC 60384-4- Fixed capacitors for use in electronic equipment – Part 4: Sectional specification – Aluminum electrolytic capacitors with solid (MnO2) and non-solid electrolyte (Established in January 1995, Revised in March 2007)

EIAJ RCR-2367B- Guideline of notabilia for fixed aluminum electrolytic capacitors for use in electronic equipment [Technical Standardization Committee on Passive Components (Established in March 1995, Revised in March 2002)].

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