

SAMXON BRAND ALUMINUM ELECTROLYTIC CAPACITORS PRODUCT SPECIFICATION 規格書

CUSTOMER :

(**客戶**):志盛翔

DATE :

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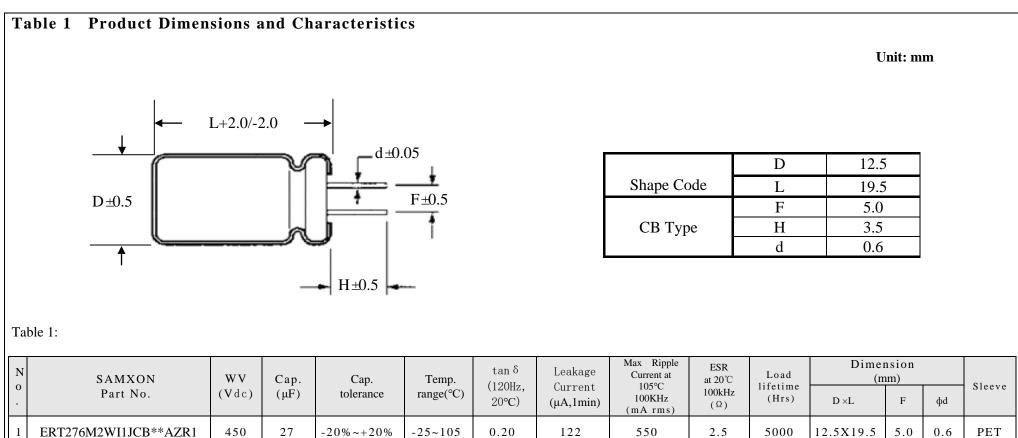
CATEGORY (品名) DESCRIPTION (型号) VERSION (版本) Customer P/N	•	ALUMINUM ELECTROLYTIC CAPACITORS RT 450V27μF(φ12.5X19.5) 01
SUPPLIER	:	

SUPPL	IER	CUST	OMER
PREPARED (拟定)	CHECKED (审核)	APPROVAL (批准)	SIGNATURE (签名)
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ELECTROLYTIC CAPACITOR SPECIFICATION RT SERIES

	SPECIFICATION RT SERIES					ALTERNATION HISTORY RECORDS			
Rev.	Date	Mark	Pa	ge	Contents	Purpose	Drafter	Approver	
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MAN YUE ELECTRONICS	ELECTROLYTIC CAPACITOR	SAMXON
COMPANY LIMITED	SPECIFICATION RT SERIES	
		<u>.</u>



Remark: withstanding lightning strike(2KV)

Moisture content of electrolyte \leqslant 5%

开阀电压要求≧610V

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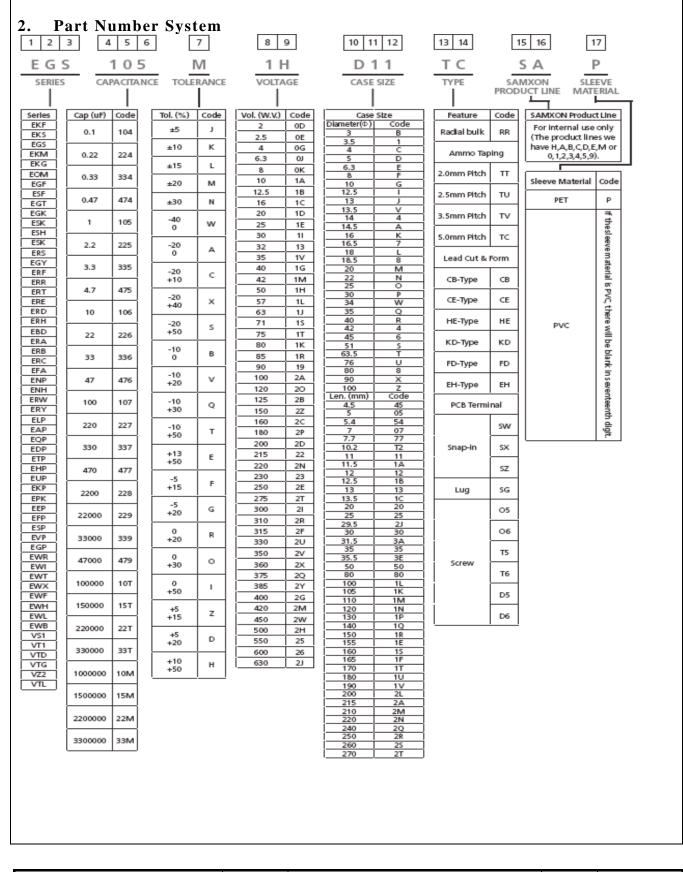
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1. Application

This specification applies to polar Aluminum electrolytic capacitor (foil type) used in electronic equipment. Designed capacitor's quality meets IEC60384.



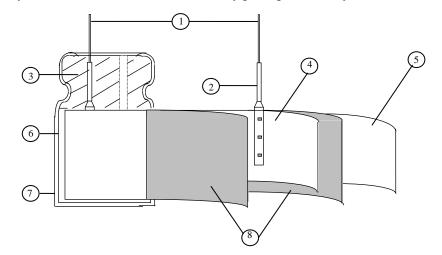
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3. Construction

Single ended type to be produced to fix the terminals to anode and cathode foil, and wind together with paper, and then wound element to be impregnated with electrolyte will be enclosed in an aluminum case. Finally sealed up tightly with end seal rubber, then finished by putting on the vinyl sleeve.



No	Component	Material
1	Lead line	Tinned CP wire (Pb Free)
2	Terminal	Aluminum wire
3	Sealing Material	Rubber
4	Al-Foil (+)	Formed aluminum foil≥ 640VF
5	Al-Foil (-)	Etched aluminum foil or formed aluminum foil
6	Case	Aluminum case
7	Sleeve	PET
8	Separator	Electrolyte paper

4. Characteristics

Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows:

Ambient temperature	:15°C to 35°C
Relative humidity	: 45% to 85%
Air Pressure	: 86kPa to 106kPa

If there is any doubt about the results, measurement shall be made within the following conditions:

Ambient temperature	$: 20^{\circ}C \pm 2^{\circ}C$
Relative humidity	: 60% to 70%
Air Pressure	: 86kPa to 106kPa

Operating temperature range

The ambient temperature range at which the capacitor can be operated continuously at rated voltage See table 1 temperature range.

As to the detailed information, please refer to table 2.

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Tabl	e 2											
	ITEM	PERFORMANCE										
4.1	Rated voltage (WV)	WV (V.DC) 160 200 220 250 350 400 420								450 500		
	Surge voltage (SV)	SV (V.DC)	200	250	270	300	400	450	470	500	550	
4.2	Nominal capacitance (Tolerance)	Measuring V Measuring 7 <criteria></criteria>	Measuring Frequency: $120Hz \pm 12Hz$ Measuring Voltage: Not more than $0.5Vrms$ Measuring Temperature: $20 \pm 2^{\circ}C$									
4.3	Leakage current	Connecting t minutes, and <criteria></criteria>	<condition></condition> Connecting the capacitor with a protective resistor $(1k \Omega \pm 10 \Omega)$ in series for 2 minutes, and then, measure Leakage Current. <criteria></criteria> Refer to Table 1								for 2	
4.4	tan δ	See 4.2, Nor < Criteria >	<condition> See 4.2, Norm Capacitance, for measuring frequency, voltage and temperature.<criteria> Refer to Table 1</criteria></condition>									
4.	Terminal strength	Tensile Str Fixed the o seconds. Bending St Fixed the ca 90° within seconds. Diamer 0.51 Over 0.	Condition> Tensile Strength of Terminals Fixed the capacitor, applied force to the terminal in lead out direction for 10±1 seconds. Bending Strength of Terminals. Fixed the capacitor, applied force to bent the terminal (1~4 mm from the rubber) for 90° within 2~3 seconds, and then bent it for 90° to its original position within 2~3								r) for 1 2~3	

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		<condition> STEP</condition>	Tasting Tan	nperature(°C)		г	Time		
		1		± 2	Time to		ermal eq	uilibriun	1
		2	-	$\frac{\pm 2}{25) \pm 3}$			er al eq		
		3		± 2			ermal eq		
		4		$\frac{\pm 2}{5\pm 2}$	-	reach th	-	quilibriu	
		5		± 2			ermal eq	•	
		<criteria></criteria>	20	<u> </u>		icacii tii	ermai eq	umonum	.1
Temperature characteristi 4.6 cs	characteristi	a. In step 4, tashall not moreb. In step 5, tmore than the	 a. In step 4, tan δ shall be within the limit of Item 4.4The leakage current measures shall not more than 8 times of its specified value. b. In step 5, tan δ shall be within the limit of Item 4.4The leakage current shall more than the specified value. c. In step 2,At -25 °C, impedance (z) ratio shall not exceed the value of the following the following statement of the						all no
		Working Volt	age (V) 1	60 200	250	350	400	450	
		Z-25°C/Z+	20°C	3 3	3	5	5	6	
4.7	Load life test	<condition>According to I$105 \ C \pm 2$ withhours . (The service)voltage) Thenatmospheric con<criteria>The characterinLeakageCapacititan δAppeara</criteria></condition>	h DC bias volt sum of DC and the product onditions. The astic shall meet e current ance Change	age plus the rat l ripple peak should be to result should i	red ripple voltage sh ested afte neet the for requirem .3 shall be 20% of ir than 200%	current for all not e r 16 ho collowing ents. e satisfied hitial value o of the s	or Table xceed the ours reco table: d d ue.	value.	ife tim vorkin

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		<criteria></criteria>	
			meet the following requirements.
		Leakage current	Value in 4.3 shall be satisfied
1.0	Shelf	Capacitance Change	Within $\pm 20\%$ of initial value.
4.8	life	tan δ	Not more than 200% of the specified value.
	test	Appearance	There shall be no leakage of electrolyte.
		Remark: If the capacitors are	e stored more than 1 year, the leakage current may
		increase. Please apply voltag	e through about 1 k Ω resistor, if necessary.
4.9	Surge test	The capacitor shall be submit followed discharge of 5 min The test temperature shall to C_R :Nominal Capacitance (<criteria></criteria> Leakage current Capacitance Change tan δ Appearance Attention:	 be 15~35°C. μ F) Not more than the specified value. Within ±15% of initial value. Not more than the specified value. There shall be no leakage of electrolyte.
4.10	Vibration test	perpendicular directions. Vibration frequency ra Peak to peak amplitud Sweep rate Mounting method: The capacitor with diameter in place with a bracket. 4mm or les 4mm or les	e : 1.5mm : 10Hz ~ 55Hz ~ 10Hz in about 1 minute greater than 12.5mm or longer than 25mm must be fixed Within 30°

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		< Condition> The capacitor shall be test	-	conditions: Sn-Cu solder			
		Soldering temperature	: 250±3°C				
	Coldenshility	Dipping depth	: 2mm				
4.11	Solderability test	Dipping speed	: 25±2.5mm	n/s			
	test	Dipping time <criteria></criteria>	: 3±0.5s				
		<criteria></criteria>	A minimur	n of 95% of the surface being	п		
		Coating quality	immersed	If of 95% of the sufface being			
			minoroca				
		<condition></condition>					
		Terminals of the capac	itor shall be immersed i	nto solder bath at			
		260 ± 5 °C for 10 ± 1 sec	onds or $400 \pm 10^{\circ}$ C for 3	$^{+1}_{-0}$ seconds to 1.5~2.0mm fro	m the		
		body of capacitor.		-			
	Resistance to	• •	ll be left under the norm	nal temperature and normal			
4.12	solder heat	humidity for 1~2 hours	s before measurement.				
	test	< <u>Criteria></u>					
		Leakage current	Not more than the				
		Capacitance Change	Within $\pm 10\%$ of				
		tan δ	Not ore than the	eakage of electrolyte.			
		Appearance	There shall be no	leakage of electrolyte.			
		<condition></condition>					
		Temperature Cycle:Accor	ding to IEC60384-4No	4.7methods, capacitor shall b	be		
		placed in an oven, the con	dition according as bel	ow:			
		Те	mperature	Time			
		(1)+20℃		≤ 3 Minutes			
	Change of	(2)Rated low tempera	ature (-40°C) (-25°C)	30 ± 2 Minutes			
4.13	temperature	(3)Rated high temper		30 ± 2 Minut s			
	test	(1) to (3)=1 cycle, tot					
		<criteria></criteria>					
		The characteristic shall m	eet the following requir	ement			
		Leakage current	Not more than the s				
		tan δ	Not more than the s	specified value.			
		Appearance	There shall be no le	eakage of electrolyte.			
		<condition></condition>					
		Humidity Test:					
		According to IEC60384	-				
		be exposed for 500 ± 8 hours in an atmosphere of $90\sim95\%$ R H .at					
		40 ± 2 °C, the characteristic change shall meet the following requirement.					
4.14	Damp heat	<criteria></criteria>					
	test	Le kage current	Not more than the spe				
		Capacitance Change	Within $\pm 20\%$ of init				
		tan δ	Not more than 120	% of the specified			
			value.				
		Appearance	There shall be no leak	age of electrolyte.			

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4.15	Vent test	<condition>The following test only apply to those pri$\geq \emptyset 6.3$ with vent.D.C. testThe capacitor is connected with its polarity current selected from below table is applied <table 3="">$\boxed{\text{Diameter (mm)} DC \text{ Current (A)}}{22.4 \text{ or less} 1}$ Over 22.4 10<criteria>The vent shall operate with no dangerous complexes of the capacitor and/or case.</criteria></table></condition>	y reversed to a I	DC power so	ource. Then a				
4.16	Maximum permissible (ripple current)	Cap. (μ F)1~5.60.200.46.8~1800.400.7220~0.500.8Temperature Coefficient:Capacitor ambient temperature $\leq 65^{\circ}$ C77Temperature coefficientActural rms ripple1.73	n operating temp the peak A.C vol ge. k 10k 40 0.80 75 0.90	perature					
4.17	"S" countermea- sures	Condition> Test voltage : Rated voltage × 1.5 Current limit : 1A Max DC source Criteria> After the capacitors are subjected to 1.5 times of the rated voltage for 10 minutes, at least 60% of the capacitors (sampling number=10pieces) shall be no venting or no short circuit even after venting and blowing up electrolyte. In addition, accumulative test result shall be at least 80%.							

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5. It refers to the latest document of "Environment-related Substances standard" (WI-HSPM-QA-072).

	Substances				
	Cadmium and cadmium compounds				
Heavy etals	Lead and lead compounds				
Ticavy clais	Mercury and mercury compounds				
	Hexavalent chromium compounds				
	Polychlorinated biphenyls (PCB)				
Chloinated	Polychlorinated naphthalenes (PCN)				
organic	Polychlorinated terphenyls (PCT)				
compounds	Short-chain chlorinated paraffins(SCCP)				
	Other chlorinated organic compounds				
	Polybrominated biphenyls (PBB)				
Brominated .	Polybrominated diphenylethers(PBDE) (including				
organic	decabromodiphenyl ether[DecaBDE])				
compounds	Other brominated organic compounds				
Tributyltin comp	oounds(TBT)				
Triphenyltin con	npounds(TPT)				
Asbestos					
Specific azo com	pounds				
Formaldehyde					
Beryllium oxide					
Beryllium copp	er				
Specific phthalat	tes (DEHP,DBP,BBP,DINP,DIDP,DNOP,DNHP)				
Hydrofluorocarb	on (HFC), Perfluorocarbon (PFC)				
Perfluorooctane	sulfonates (PFOS)				
Specific Benzotr	iazole				

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Attachment: Application Guidelines

1.Circuit Design

- 1.1 Operating Temperature and Frequency Electrolytic capacitor electrical parameters are normally specified at 20°C temperature and 120Hz frequency. These parameters vary with changes in temperature and frequency. Circuit designers should take these changes into consideration.
- (1) Effects of operating temperature on electrical parameters
 a) At higher temperatures, leakage current and capacitance increase while equivalent series resistance (ESR) decreases.
 - b) At lower temperatures, leakage current and capacitance decrease while equivalent series resistance (ESR) increases.
- (2) Effects of frequency on electrical parameters
 - a) At higher frequencies capacitance and impedance decrease while $\tan \delta$ increases.
 - b) At lower frequencies, ripple current generated heat will rise due to an increase in equivalent series resistance (ESR).
- 1.2 Operating Temperature and Life Expectancy See the file: Life calculation of aluminum electrolytic capacitor
- 1.3 Common Application Conditions to Avoid

The following misapplication load conditions will cause rapid deterioration to capacitor electrical parameters. In addition, rapid heating and gas generation within the capacitor can occur causing the pressure relief vent to operate and resultant leakage of electrolyte. Under Leaking electrolyte is combustible and electrically conductive.

(1) Reverse Voltage

DC capacitors have polarity. Verify correct polarity before insertion. For circuits with changing or uncertain polarity, use DC bipolar capacitors. DC bipolar capacitors are not suitable for use in AC circuits.

(2) Charge / Discharge Applications

Standard capacitors are not suitable for use in repeating charge / discharge applications. For charge / discharge applications consult us and advise actual conditions.

(3) Over voltage

Do not apply voltages exceeding the maximum specified rated voltage. Voltages up to the surge voltage rating are acceptable for short periods of time. Ensure that the sum of the DC voltage and the superimposed AC ripple voltage does not exceed the rated voltage.

(4) Ripple Current

Do not apply ripple currents exceeding the maximum specified value. For high ripple current applications, use a capacitor designed for high ripple currents or contact us with your requirements. Ensure that allowable ripple currents superimposed on low DC bias voltages do not cause reverse voltage conditions.

(5) Pulse Current

The pulse current cannot exceed 10 times the rated ripple current at 120Hz.

- 1.4 Using Two or More Capacitors in Series or Parallel
- (1) Capacitors Connected in Parallel

The circuit resistance can closely approximate the series resistance of the capacitor causing an imbalance of ripple current loads within the capacitors. Careful design of wiring methods can minimize the possibility of excessive ripple currents applied to a capacitor.

(2) Capacitors Connected in Series

Normal DC leakage current differences among capacitors can cause voltage imbalances. The use of voltage divider shunt resistors with consideration to leakage current can prevent capacitor voltage imbalances.

- 1.5 Capacitor Mounting Considerations
- (1) Double Sided Circuit Boards

Avoid wiring pattern runs, which pass between the mounted capacitor and the circuit board.

When dipping into a solder bath, excess solder may collect under the capacitor by capillary action and short circuit the anode and cathode terminals.

(2)Circuit Board Hole Positioning

The vinyl sleeve of the capacitor can be damaged if solder passes through a lead hole for subsequently processed parts. Special care when locating hole positions in proximity to capacitors is recommended.

(3)Circuit Board Hole Spacing

The circuit board holes spacing should match the capacitor lead wire spacing within the specified tolerances. Incorrect spacing can cause excessive lead wire stress during the insertion process. This may result in premature capacitor failure due to short or open circuit, increased leakage current, or electrolyte leakage.

(4) Clearance for Case Mounted Pressure Relief vents

Capacitors with case mounted pressure relief vents require sufficient clearance to allow for proper vent operation. The minimum clearances are dependent on capacitor diameters as proper vent operation. The minimum clearances are dependent on capacitor diameters as follows.

φ6.3~φ16mm:2mm minimum, φ18~φ35mm:3mm minimum, φ40mm or greater:5mm minimum.

(5) Clearance for Seal Mounted Pressure Relief Vents

A hole in the circuit board directly under the seal vent location is required to allow proper release of pressure.

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 (6) Wiring Near the Pressure Relief Vent Avoid locating high voltage or high current wiring or circuit board paths above the pressure relief vent. Flammable, high temperature gas exceeding 100°C may be released which could dissolve the wire insulation and ignite. (7) Circuit Board patterns Under the Capacitor Avoid circuit board runs under the capacitor as electrolyte leakage could cause an electrical short. (8) Screw Terminal Capacitor Mounting Do not orient the capacitor with the screw terminal side of the capacitor facing downwards. Tighten the terminal and mounting bracket screws within the torque range specified in the specification. 								
 Electrical Isolation of the Capacitor Completely isolate the capacitor as follows. Between the cathode and the case (except for axially leaded B types) and between the anode terminal and other circuit paths Between the extra mounting terminals (on T types) and the anode terminal, cathode terminal, and other circuit paths. 								
1.7 The Product endurance should take the sample as the standard.								
1.8 If conduct the load or shelf life test, must be collect date code within 6 months products of sampling.								
 1.9 Capacitor Sleeve The vinyl sleeve or laminate coating is intended for marking and identification purposes and is not meant to electrically insulate the capacitor. The sleeve may split or crack if immersed into solvents such as toluene or xylene, and then exposed to high temperatures. 								
CAUTION! Always consider safety when designing equipment and circuits. Plan for worst case failure modes such as short circuits and open circuits which could occur during use. (1) Provide protection circuits and protection devices to allow safe failure modes. (2) Design redundant or secondary circuits where possible to assure continued operation in case of main circuit failure.								
 2.Capacitor Handling Techniques 2.1 Considerations Before Using Capacitors have a finite life. Do not reuse or recycle capacitors from used equipment. Transient recovery voltage may be generated in the capacitor due to dielectric absorption. If required, this voltage can be discharged with a resistor with a value of about 1kΩ. Capacitors stored for long periods of time may exhibit an increase in leakage current. This can be corrected by gradually applying rated voltage in series with a resistor of approximately 1kΩ. If capacitors are dropped, they can be damaged mechanically or electrically. Avoid using dropped capacitors. Dented or crushed capacitors should not be used. The seal integrity can be compromised and loss of electrolyte / shortened life can result. 								
 2.2 Capacitor Insertion Verify the correct capacitance and rated voltage of the capacitor. Verify the correct polarity of the capacitor before inserting. Verify the correct hole spacing before insertion (land pattern size on chip type) to avoid stress on the terminals. Ensure that the auto insertion equipment lead clinching operation does not stress the capacitor leads where they enter the seal of the capacitor. For chip type capacitors, excessive mounting pressure can cause high leakage current, short circuit, or disconnection. 								
 2.3 Manual Soldering (1) Observe temperature and time soldering specifications or do not exceed temperatures of 400 °C for 3 seconds or less. (2) If lead wires must be formed to meet terminal board hole spacing, avoid stress on the lead wire where it enters the capacitor seal. (3) If a soldered capacitor must be removed and reinserted, avoid excessive stress to the capacitor leads. (4) Avoid touching the tip of the soldering iron to the capacitor, to prevent melting of the vinyl sleeve. 								
2.4 Flow Soldering								

- (1) Do not immerse the capacitor body into the solder bath as excessive internal pressure could result.
- (2) Observe proper soldering conditions (temperature, time, etc.) Do not exceed the specified limits.
- (3) Do not allow other parts or components to touch the capacitor during soldering.
- 2.5 Other Soldering Considerations

Rapid temperature rises during the preheat operation and resin bonding operation can cause cracking of the capacitor vinyl sleeve. For heat curing, do not exceed 150°C for a maximum time of 2 minutes.

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2.6 Capacitor Handling after Solder

- (1). Avoid movement of the capacitor after soldering to prevent excessive stress on the lead wires where they enter the seal.
- (2). Do not use capacitor as a handle when moving the circuit board assembly.
- (3). Avoid striking the capacitor after assembly to prevent failure due to excessive shock.
- 2.7 Circuit Board Cleaning

Acetone

- (1) Circuit boards can be immersed or ultrasonically cleaned using suitable cleaning solvents for up 5 minutes and up to 60°C maximum temperatures. The boards should be thoroughly rinsed and dried. The use of ozone depleting cleaning agents is not recommended in the interest of protecting the environment.
- (2) Avoid using the following solvent groups unless specifically allowed for in the specification;

Halogenated cleaning solvents: except for solvent resistant capacitor types, halogenated solvents can permeate the seal and cause internal capacitor corrosion and failure. For solvent resistant capacitors, carefully follow the temperature and time requirements of the specification. 1-1-1 trichloroethane should never be used on any aluminum electrolytic capacitor.

- Alkali solvents : could attack and dissolve the aluminum case.
- Petroleum based solvents: deterioration of the rubber seal could result.
- Xylene : deterioration of the rubber seal could result.
 - : removal of the ink markings on the vinyl sleeve could result.
- (3) A thorough drying after cleaning is required to remove residual cleaning solvents which may be trapped between the capacitor and the circuit board. Avoid drying temperatures, which exceed the maximum rated temperature of the capacitor.
- (4) Monitor the contamination levels of the cleaning solvents during use by electrical conductivity, pH, specific gravity, or water content. Chlorine levels can rise with contamination and adversely affect the performance of the capacitor. Please consult us for additional information about acceptable cleaning solvents or cleaning methods.

2.8 Mounting Adhesives and Coating Agents

When using mounting adhesives or coating agents to control humidity, avoid using materials containing halogenated solvents. Also, avoid the use of chloroprene based polymers. After applying adhesives or coatings, dry thoroughly to prevent residual solvents from being trapped between the capacitor and the circuit board.

3. Precautions for using capacitors

3.1 Environmental Conditions

- Capacitors should not be stored or used in the following environments.
- (1) Temperature exposure above the maximum rated or below the minimum rated temperature of the capacitor.
- (2) Direct contact with water, salt water, or oil.
- (3) High humidity conditions where water could condense on the capacitor.
- (4) Exposure to toxic gases such as hydrogen sulfide, sulfuric acid, nitric acid chlorine, or ammonia.
- (5) Exposure to ozone, radiation, or ultraviolet rays.
- (6) Vibration and shock conditions exceeding specified requirements.

3.2 Electrical Precautions

- (1) Avoid touching the terminals of the capacitor as possible electric shock could result. The exposed aluminum case is not insulated and could also cause electric shock if touched.
- (2) Avoid short circuit the area between the capacitor terminals with conductive materials including liquids such as acids or alkaline solutions.

4. Emergency Procedures

- (1) If the pressure relief vent of the capacitor operates, immediately turn off the equipment and disconnect form the power source. This will minimize additional damage caused by the vaporizing electrolyte.
- (2) Avoid contact with the escaping electrolyte gas which can exceed 100°C temperatures.

If electrolyte or gas enters the eye, immediately flush the eyes with large amounts of water.

If electrolyte or gas is ingested by month, gargle with water.

If electrolyte contacts the skin, wash with soap and water.

5. Long Term Storage

Leakage current of a capacitor increases with long storage times. The aluminum oxide film deteriorates as a function of temperature and time. If used without reconditioning, an abnormally high current will be required to restore the oxide film. This current surge could cause the circuit or the capacitor to fail. After one year, a capacitor should be reconditioned by applying rated voltage in series with a 1000Ω , current limiting resistor for a time period of 30 minutes. If the expired date of products date code is over eighteen months, the products should be return to confirmation.

5.1 Environmental Conditions

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The capacitor shall be not use in the following condition:

(1) Temperature exposure above the maximum rated or below the minimum rated temperature of the capacitor.

(2) Direct contact with water, salt water, or oil.

(3) High humidity conditions where water could condense on the capacitor.

(4) Exposure to toxic gases such as hydrogen sulfide, sulfuric acid, nitric acid, chlorine, or ammonia.

(5) Exposure to ozone, radiation, or ultraviolet rays.

(6) Vibration and shock conditions exceeding specified requirements.

6. Capacitor Disposal

When disposing of capacitors, use one of the following methods.

Incinerate after crushing the capacitor or puncturing the can wall (to prevent explosion due to internal pressure rise). Capacitors should be incinerated at high temperatures to prevent the release of toxic gases such as chlorine from the

polyvinyl chloride sleeve, etc.

Dispose of as solid waste.

NOTE: Local laws may have specific disposal requirements, which must be followed.

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