

SAMXON BRAND ALUMINUM ELECTROLYTIC CAPACITORS PRODUCT SPECIFICATION 規格書

CUSTOMER :

(**客戶**): 志盛翔

DATE :

(日期):2024-06-20

CATEGORY (品名)	: ALUMINUM ELECTROLYTIC CAPACITORS
DESCRIPTION (型号)	: RT 450V33μF(φ16X19.5)
VERSION (版本)	: 01
Customer P/N	:
SUPPLIER	:

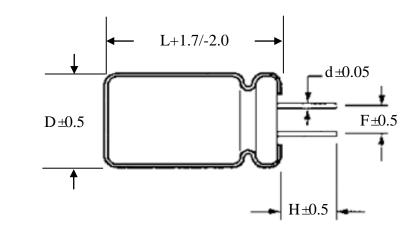
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ELECTROLYTIC CAPACITOR SPECIFICATION RT SERIES

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	SPECIFICATION RT SERIES						ATION HIS RECORDS	STORY
Rev.	Date	Mark		age	Contents	Purpose	Drafter	Approver
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MAN YUE ELECTRONICS COMPANY LIMITED	ELECTROLYTIC CAPACITOR SPECIFICATION	SAMXON						
	RT SERIES							
Table 1 Product Dimensions and Characteristics								
		Unit: mm						



Shape Code	D	16
Shape Code	L	19.5
СВ Туре	F	7.5
	Н	3.5
	d	0.8

Table 1:

N	SAMXON	1 1		1 emp. (120Hz)		Leakage Max Ripple Current at 105°C 100KHz		Load lifetime	Dimension (mm)			Sleeve	
0.	Part No.	(Vdc)	(µF)	tolerance	range(℃)	20°C)	(µA,2min)	(mA rms)	(Hrs)	D×L	F	фd	
1	ERT336M2WK1JCB**A-R	450	33	-20%~+20%	-25~105	0.20	322	891	5000	16X19.5	7.5	0.8	PET
开阀	电压610V												
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5 Temperature characteristic	
7 Load life test	
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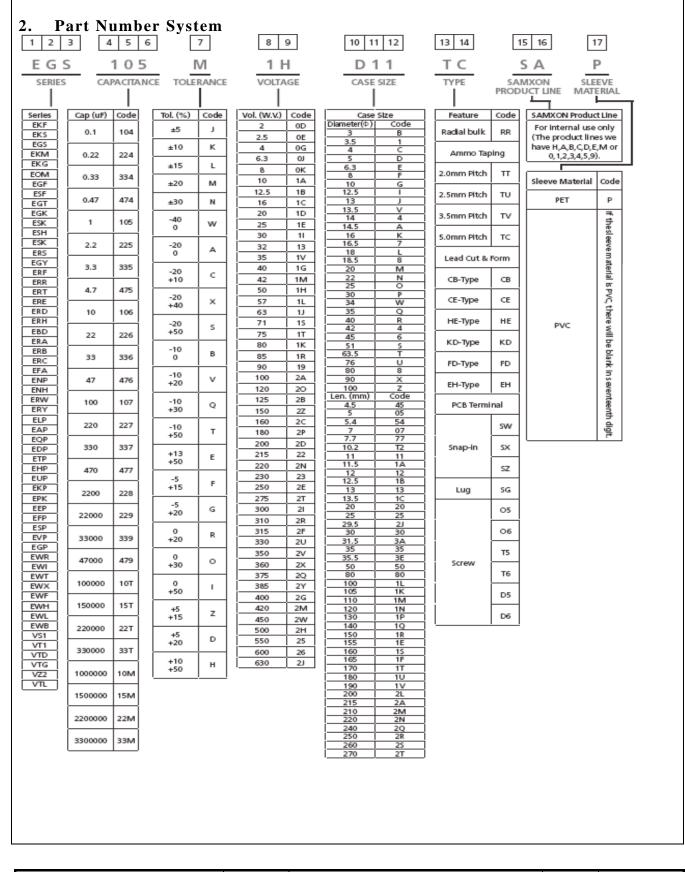
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1. Application

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



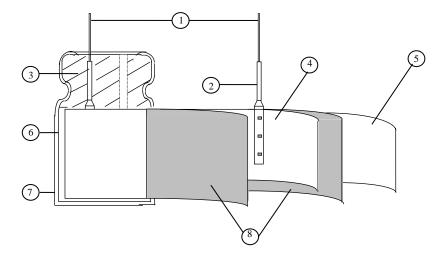
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3. Construction

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
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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Table	e 2										
	ITEM				PE	RFORM	IANCE				
	Rated voltage (WV)										
4.1		WV (V.DC)	160	200	220	250	350	400	420	450	
	Surge voltage (SV)	SV (V.DC)	200	250	270	300	400	450	470	500	
4.2	Nominal capacitance (Tolerance)	<condition> Measuring F Measuring V Measuring T <criteria> Shall be with</criteria></condition>	requen oltage empera	ature	120Hz : Not m : 20±2 d capac	ore than ℃	n 0.5Vri				
4.3	Leakage current	<condition> Connecting t minutes, and <criteria> Refer to Tabl</criteria></condition>	he cap then, n		-			tor (11	kΩ±1	0Ω) in	series for 2
4.4	tan δ	<condition> See 4.2, Nor <criteria> Refer to Tabl</criteria></condition>	m Capa	citance	, for me	easuring	freque	ncy, vo	ltage ar	nd temp	erature.
	Terminal	seconds. Bending Str Fixed the ca	ength o capacito rength o pacitor 2~3 sec	or, appl of Term r, applie conds, a	ied force ninals. and force	to bent bent it	the terr for 90° force N	ninal (1 to its c	~4 mm original Bendin	from th position	on for 10±1 e rubber) for n within 2~3 N
4.5	strength		nm and			(kg	<u>(</u> 1) .51)			(0.25)	
	-	Over 0.			n	10 (1	,			(0.23) (0.51)	
		< Criteri No notio		changes	shall b	e found	, no bre	akage o	or loose	ness at	the terminal.

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		<condition></condition>							
		STEP	Testing Tempo	. ,			Time		
		1	20±			o reach the		-	
		2	-40(-25)					equi ibri	
		3	20±					equilibriu	
		4	105±		-			equilibriu	
		5 <criteria></criteria>	20土	2	Time to	o reach t	hermal e	equilibriu	n
4.6	Temperature characteristi cs	a. In step 4, ta shall not more b. In step 5, ta more than the	than δ shall be with than 8 times of β an δ shall be wit specified value. t-40°C (-25°C), i e.	ts specified hin the limi	value. t of Item	4.4The	leakage	current sl	nall no
		Working Voltag	ge (V) 160	200	250	350	400	450	7
		Z-25°C/Z+20		3	3	5	5	6	
4.7	Load life test	$105 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	EC60384-4No.4 h DC bias voltag m of DC and ri the product sh onditions. The re stic shall meet th e current ance Change	e plus the ra pple peak v nould be to sult should p	ted ripple roltage sh ested afte meet the requirem .3 shall b 20% of i than 2009	e current nall not e er 16 h followin nents. De satisfie nitial va % of the	for Tab exceed t ours reg table: ed lue. specifie	le 1 load he rated covering	life tin workin

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		<criteria></criteria>	
			meet the following requirements.
	21 10	Leakage current	Value in 4.3 shall be satisfied
1.0	Shelf	Capacitance Change	Within $\pm 20\%$ of initial value.
4.8	life test	tan δ	Not more than 200% of the specified value.
	lest	Appearance	There shall be no leakage of electrolyte.
		Remark: If the capacitors are	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 submi followed discharge of 5 min The test temperature shall t 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 a in place with a bracket. 4mm or les (Criteria>	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 : 2mm		
	Solderability	Dipping depth	: 2mm : 25±2.5mm		
4.11	test	Dipping speed Dipping time	23 ± 2.51111 : $3\pm 0.5s$	1/8	
	test	<criteria></criteria>	. 5±0.58		
			A minimur	n of 95% of the surface bei	ng
		Coating quality	immersed		8
		<condition></condition>			
		Terminals of the capac			
		260 ± 5 °C for 10 ± 1 seco	onds or $400 \pm 10^{\circ}$ C for 3	$^{+1}_{-0}$ seconds to 1.5~2.0mm	from the
		body of capacitor .			
	Resistance to			nal temperature and norma	1
4.12	solder heat	humidity for 1~2 hours	s before measurement.		
	test	<criteria></criteria>	Not more than the	an a sifi a d walve	
		Leakage current Capacitance Change	Not more than the Within $\pm 10\%$ of		
		tan δ	Not ore than the		
		Appearance		leakage of electrolyte.	
				6	
		<condition></condition>			
				.4.7methods, capacitor sha	ll be
		placed in an oven, the con	· · · · · · · · · · · · · · · · · · ·		
			mperature	Time	
		(1)+20°C		\leq 3 Minutes	
	Change of	(2)Rated low tempera	ture $(-40^{\circ}C)(-25^{\circ}C)$	30 ± 2 Minutes	
4.13	temperature	(3)Rated high temper	ature (+105 $^{\circ}$ C)	30 ± 2 Minutes	
	test	(1) to (3)=1 cycle, tot	al 5 cycle		
		<criteria></criteria>			
		The characteristic shall me			
		Leakage current	Not more than the s	specified value.	
		tan δ	Not more than the s	•	
		Appearance	There shall be no le	eakage of electrolyte.	
		<condition></condition>			
		Humidity Test:	1No 1 10m - 41 - 1-	a aitan ahall	
		According to IEC60384 be exposed for 500 ± 81	-		
		-	-	he following requirement.	
		40 ± 2 °, the characteris	stie change shan meet t	ne following requirement.	
	Damp heat	<criteria></criteria>			
4.14	test	Leakage current	Not more than the spe	cified value	
		Capacitance Change	Within $\pm 20\%$ of init		
			Not more than 120		
		tan δ	value.	v or the specificu	
		Appearance	There shall be no leak	age of electrolyte.	
		11		<u> </u>	

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The vent shall operate with no dangerous conditions such as flame pieces of the capacitor and/or case. <condition> The maximum permissible ripple current is the maximum A.C cu at 120Hz and can be applied at maximum operating temperature Table-1 The combined value of D.C voltage and the peak A.C voltage sh rated voltage and shall not reverse voltage.Herein Maximum permissible (ripple)Frequency Multipliers: Coefficient (Hz)4.16Maximum (ripple)</condition>	urrent
Maximum permissible Freq. (Hz) 120 1k 10k 100 $1 \sim 5.6$ 0.20 0.40 0.80 1.00	ian not exceed th
current) 220~ 0.50 0.85 0.94 1.00	0
Temperature Coefficient:Capacitor ambient temperature $\leq 65^{\circ}$ C 75° C 85° C 95° Temperature coefficient Actural rms ripple1.731.731.731.73	

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

	Substances
	Cadmium and cad ium compounds
Heavy metals	Lead and lead compounds
Theavy metals	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
D 1	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	oon (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. 						
.7 The Product endurance should take the sample as the standard.						
.8 If conduct the load or shelf life test, must be collect date code within 6 months products of sampling.						
 .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 1) Capacitors have a finite life. Do not reuse or recycle capacitors from used equipment. 2) 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. 3) 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. 4) If capacitors are dropped, they can be damaged mechanically or electrically. Avoid using dropped capacitors. 5) 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 1) Verify the correct capacitance and rated voltage of the capacitor. 2) Verify the correct polarity of the capacitor before inserting. 3) Verify the correct hole spacing before insertion (land pattern size on chip type) to avoid stress on the terminals. 4) 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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