ALUMINUM ELECTROLYTIC CAPACITORS SPECIFICATION SHEET

RoHS Compliance

CUSTOMER PART No.		
Rubycon PART No.	25 YXA 2200 M EFC CE 12.5X25	
DRAWING No.	RER-207143	ISSUE No.1
ISSUE DATE	12 June 2018	



RUBYCON CORPORATION

ENGINEERING DIVISION ELECTROLYTIC CAPACITOR DESIGN DEPT.

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Rubycon

Aluminum electrolytic capacitor Specification Sheet

25 YXA 2200 M EFC CE 12.5X25

Drawing No.: RER-207143

Issue No. : 1

1.Scope

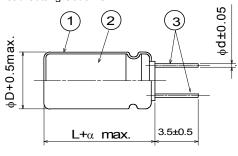
This specification covers polarized aluminum electrolytic capacitors with non-solid electrolyte for use in electronic equipments. Style: CE 04 (Radial Leaded)

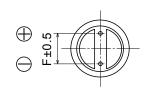
2. Numbering System

Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Size
<u>25</u>	<u>YXA</u>	<u>2200</u>	<u>M</u>	<u>EFC</u>		<u>12.5X25</u>

3.Diagram of dimensions Unit: mm

Lead Cutting Code : CE





Dimensions						
φD	L	L F		α		
12.5	25	5	0.6	1.5		

1	Sleeve	P.E.T.	
2	Case	Aluminum	
3	Lead Wire	Copper clad steel wire	Tin plated

A safety vent shall be provided.

4.Marking

Unless otherwise specified, capacitor shall be clearly marked the following items on its body.

Sleeve color: Black, Lettering color: White

(1)Trade mark **Rubycon**

(2)Rated Voltage 25V (3)Nominal Capacitance 2200µF

(4)Polarity (Negative Polarity)

(5)Series YXA

(6)Lot Number

(7)Maximum Operating
Temperature
(8)PET sleeve mark

105°C

PET

5. Electrical Performance

Table-1

Operating Temperature Range	-55 ~105	(°C)			
Nominal Capacitance	20°C, 120Hz	2200	(µF)		
Capacitance Tolerance	-20 ~ 20	(%)			
Rated Voltage	25	(V.DC)			
Surge Voltage		32	(V.DC)		
Leakage Current	20°C, 2min.	550	(µA max.)		
Dissipation Factor (tanδ)	20°C, 120Hz	0.18	(max.)		
Rated Ripple Current	105°C, 120Hz	1230	(mAr.m.s.)		
Impedance Ratio 120Hz	Z-25°C/Z20°C	2	(max.)		
	Z-40°C/Z20°C	4	(max.)		

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6.

6.	PERFORMANCE									
Та	ble-2									
	1 Load Life Test	<condition> Capacitor under the test shall be applied the rated voltage continuously through 1000Ω series protective resistor (with rated ripple current) at following temperature and time. After the test and returned in standard condition for 1 to 2 hours, and the capacitor shall meet following requirements.</condition>								
		Tem	perature:		±2°C					
			Time: 3000^{+72}_{0} h							
		<criteria></criteria>								
		Le	eakage Curre	ent	Not more th	an the spec	ified value			
		С	apacitance C	Change	Within ±25°	% of the initiation	al value			
		D	issipation Fa	octor	Not more th	an 200% of	the specifie	ed value		
		Α	ppearance		Notable cha	anges shall r	not be found	l.		
H	2 Shelf Life Test	<condition></condition>								\dashv
									ed . After the test and ring requirements.	
		(If any doub in JIS C 51		ne judgme	ent, the capa	citors shall	be subjecte	d to voltage	treatment specified	
		Tem	perature:		±2°C					
			Time:	1000	⁺⁴⁸ ₀ h					
		<criteria></criteria>								
		Leakage Current Not more than the specified value								
		С	Capacitance Change Within ±25% of				al value			
		D	issipation Fa	ctor	Not more th	an 200% of	the specifie	ed value		
		Appearance Notable changes shall			not be found					
	3 Rated ripple current		d ripple curre			.C. current a	it 120Hz and	d can be app	plied	
		at maximum operating temperature.(2) The combined value of D.C. voltage and the peak A.C. voltage shall not exceed the rated voltage and shall not be reverse voltage.								
	<frequency coefficient=""></frequency>						_			
		Capacitance (μF)	requency (Hz)	60(50)	120	500	1k	10k≤		
		220	0	8.0	1	1.05	1.1	1.15		
		-Tamanaga-ta	una Confficier	nt >						
			ure Coefficie	nt > 105	85	65≥				
		Temperat Coeffic		1.0	1.7	2.1				
			<u> </u>							
		passed thro		tor at eac	ch temperati	ire when the	life expecta	ancy of a ca	le current that can be pacitor becomes to be	

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Aluminum electrolytic capacitor Specification Sheet

YXA series Issue No. : 1

Notes on use of aluminum electrolytic capacitors

(1) Charge and discharge

Do not use for the circuit that repeats quick charge or discharge.

(2) External stress

Do not apply excessive force of pushing, pulling bending, and/or twisting to the main body, lead wire and terminals.

(3) Heat resistance at soldering process

In the soldering process of PC board with Capacitors mounted, secondary shrinkage or crack of sleeve may be observed when soldering temperature is too high and /or soldering time is too long.

If lead wire of other components or pattern of double sided PC board touches the capacitor, the similar failure may be also originated at pre-heating, heating at hardening process of adhesive and soldering process.

(4) Insulation and PC board mounting

Sleeve is for marking purpose only.

It is not recognized as insulation materials.

When double sided PC board is employed, note that it could cause a short circuit if lead wire of other components or pattern of double sided PC board touches capacitor. Please avoid circuit pattern runs underneath capacitor.

In addition, case and cathode terminal are not insulated.

(5) Adhesives and coating materials

Do not use the adhesives and coating materials that contain halogenated organic solvents or chloroprene as polymer.

(6) Storage

Keep at a normal temperature and humidity. During a long storage time, leakage current will be increased. To prevent heat rise or any trouble that high leakage current possibly causes, voltage treatment is recommended for the capacitors that have been stored for a long time.

(Storage Condition)

- *Aluminum electrolytic capacitors should not be stored in high temperatures or where there is a high level of humidity. The suitable storage condition is 5°C-35°C and less than 75% in relative humidity.
- *Aluminum electrolytic capacitors should not be stored in damp conditions such as water, saltwater spray or oil spray.
- *Do not store aluminum electrolytic capacitors in an environment full of hazardous gas (hydrogen sulfide, sulfurous acid gas, nitrous acid, chlorine gas, ammonia or bromine gas).
- *Aluminum electrolytic capacitors should not be stored under exposure to ozone, ultraviolet rays or radiation.

(7) Fumigation and halogenated flame retardant

It may cause corrosion of internal electrodes, aluminum cases and terminal surface when the following conditions exist.

- *Fumigation of wooden pallets before shipment to disinfect vermin.
- *Existence of components or parts that contain halogenated flame retardant agent (bromine etc.) together with capacitors.
- *When halogenated detergents of antiseptics for preventing infection of epidemic diseases contact directly to capacitors.

(8) PC board cleaning after soldering

Please consult us when cleaning is subjected.

*Guide to application except the above are described in our catalog and EIAJ RCR-2367C.

EIAJ RCR-2367C: "Safety Application Guide for fixed aluminum electrolytic capacitors for use in electronic equipment."

Published by Japan Electronics and Information Technology Industries Association.

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NEV220M25DD-BULK NEV.33M100AA NEV4700M50HB NEV.47M100AA NEVH1.0M250AB NEVH3.3M250BB NEVH3.3M450CC

KM4700/16 KME50VB100M-8X11.5 SG220M1CSA-0407 ES5107M016AE1DA ESMG160ETD102MJ16S ESX472M16B

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S560M16V6.3X7TBSTF RGA221M1CTA-0611G ERZA630VHN182UP54N UPL1A331MPH SK035M0100AZS-0611 NEV1000M6.3DE

NEV100M16CB NEV100M50DD-BULK NEV2200M16FF NEV220M50EE NEV2.2M50AA