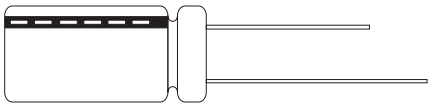
ALUMINUM ELECTROLYTIC CAPACITORS

SA Series: Radial, Miniature, Low Leakage Current, 105°C

RFE INTERNATIONAL

FEATURES

- 105°C, 1000 hours assured, Low Leakage Current.
- 7mm height.
- Use in very compact high temperature industrial equipment.



SPECIFICATIONS

Item	Performance									
Operating Temperature Range	-40°C ~ +105°C									
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20°C)	I = 0.002CV or 0.4 (A) whichever is greater (after 2 minutes) Where, C = rated capacitance in F. V=rated DC working voltage in V.									
Dissipaton Factor Tan δ at 120 Hz, 20°C	Rated Voltage	4	6.3	10	16	25	35	50	63	
	Tanδ (max)	0.35	0.24	0.21	0.16	0.14	0.12	0.10	0.10	
	Impedance ratio shall not exceed the values given in the table below									
Low Temperature Characteristics (at 120Hz)	Rated Voltage			4	6.3	10	16	25	35	50	63
	Impedance Ratio	Z(-25°C) /Z(+20°C)		6	4	3	3	2	2	2	2
		Z(-40°C) /Z(+20°C)		12	10	6	6	4	4	4	3
Load Life Test	Test Time	1000 Hrs				The specification shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 1000 hrs at 105°C.				
	Capacitance Change	≤ ± 20%								
	Dissipation Factor	Less than 200% of specified value								
	Leakage Current	Within specified value								
Shelf Life Test	Test Time	500 Hrs				The specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hrs at 105°C without voltage applied.				
	Capacitance Change	≤ ± 20%								
	Dissipation Factor	Less than 200% of specified value								
	Leakage Current	Within specified value								
Ripple Current & Frequency Multilpiers	Freq. (Hz) / Cap. F	60(50)	120	500	1K	10K up				
	Under 33	0.70	1.00	1.20	1.30	1.45				
	47 to 220	0.80	1.00	1.10	1.15	1.20				
Riple Current & Temperature Multipliers	Temperature (°C)	Under 50	70	85	105					
	Multipliers	1.95	1.65	1.27	1.0					
Standards	Satisfies Characteristic W of JIS C 5141									

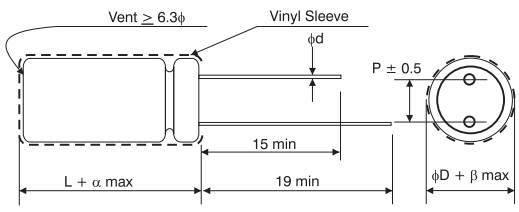
DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: D×L(mm); Ripple Current: mA/RMS at 120Hz 85°C

VDC		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
F	Code	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA
0.10	0R1													4 x 7	3	4 x 7	3
0.22	R22													4 x 7	5	4 x 7	5
0.33	R33													4 x 7	6	4 x 7	6
0.47	R47													4 x 7	7	4 x 7	7
1	010													4 x 7	10	4 x 7	10
2.2	2R2													4 x 7	16	5 x 7	19
3.3	3R3											4 x 7	18	4 x 7	20	6.3 x 7	29
4.7	4R7									4 x 7	19	5 x 7	21	6.3 x 7	24	6.3 x 7	36
10	100							4 x 7	27	5 x 7	29	6.3 x 7	32	8 x 7	40		
22	220					4 x 7	36	4 x 7	40	6.3 x 7	44	6.3 x 7	49				
33	330	4 x 7	33	4 x 7	41	5 x 7	44	5 x 7	55	6.3 x 7	55	8 x 7	67				
47	470	4 x 7	39	5 x 7	49	6.3 x 7	54	6.3 x 7	62	8 x 7	74						
100	101	6.3 x 7	59	6.3 x 7	75	8 x 7	90										

LEAD SPACING AND DIAMETER

ϕ D	4	5	6.3	8
P	1.5	2.0	2.5	3.5
ϕ d	0.45	0.5		
α	1.0			
β	0.5			



PART NUMBER EXAMPLE

SA 0R1 M 1H SA 040 070

RFE International • Tel:(949) 833-1988 • Fax:(949) 833-1788 • E-Mail Sales@rfeinc.com

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