

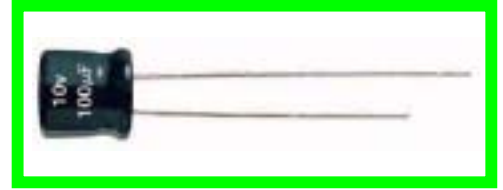
# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



## SRA Series

Non-solvent proof.  
Height 7mm.  
RoHS compliant.  
Halogen-free capacitors are also available.

85 2,000Hrs assured.

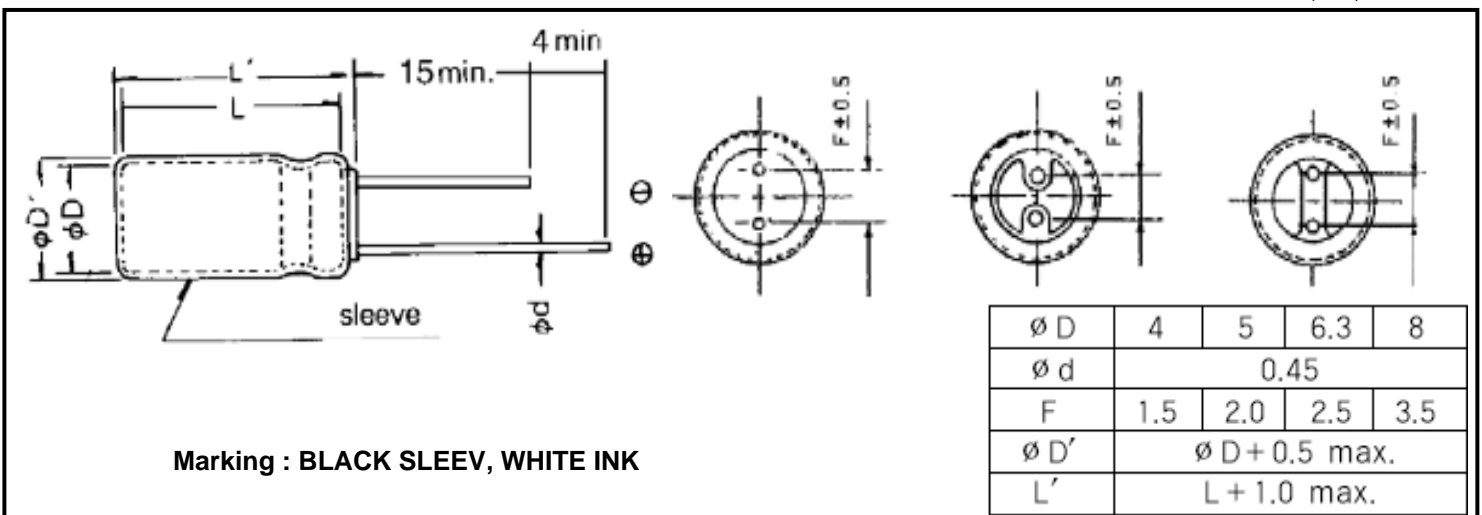


## SPECIFICATIONS

Item	Characteristics																					
Series	SRA SERIES																					
Rated Voltage Range	4 ~ 63V <sub>DC</sub>																					
Operating Temperature Range	- 40 + 85																					
Capacitance tolerance	±20% (M) (at 20 , 120Hz)																					
Leakage current	I=0.01CV (μA) or 3μA, whichever is greater. Where. I:Max. leakage current(μA) , C: Nominal capacitance(μF) V:Rated vlotage (V <sub>DC</sub> ) (at 20 , 2 minutes)																					
Dissipation factor(Tan )	<table border="1"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Tan (Max.)</td> <td>0.35</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table> <p>SRA 6.3 VB 220(0.27), SRA 16 VB 100(0.19) (at 20 , 120Hz)</p>	Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35	50	63	Tan (Max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.08			
Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35	50	63														
Tan (Max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.08														
Temperature characteristics (Max.Impedance ratio)	<table border="1"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35 ~ 63</td> </tr> <tr> <td>Z(-25 )/Z(20 )</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40 )/Z(20 )</td> <td>10</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table> <p>(at 120Hz)</p>	Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35 ~ 63	Z(-25 )/Z(20 )	4	4	3	2	2	2	Z(-40 )/Z(20 )	10	10	8	6	4	3
Rated voltage(V <sub>DC</sub> )	4	6.3	10	16	25	35 ~ 63																
Z(-25 )/Z(20 )	4	4	3	2	2	2																
Z(-40 )/Z(20 )	10	10	8	6	4	3																
Load life	The following specifications shall be satisfied when the capacitors are restored to 20 after the rated voltage is applied for 2,000 hours at 85 . Capacitance change ±20% of the initial vaule Tan 200% of the initial specified value Leakage current The initial specified value																					
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20 after exposing them for 1,000 hours at 85 without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. Capacitance change ±20% of the initial vaule Tan 200% of the initial specified value Leakage current 200% of the initial specified value																					
Others	Satisfied characteristics W of KS C 6421																					

## DIMENSIONS OF SRA Series

Unit (mm)





**RATINGS OF SRA Series**

$\mu\text{F}$ \ V <sub>DC</sub>	4(0G)		6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)	
0.1													4 x 7	1.3	4 x 7	1.3
0.15													4 x 7	2.0	4 x 7	2.5
0.22													4 x 7	2.9	4 x 7	2.9
0.33													4 x 7	3.5	4 x 7	4.4
0.47													4 x 7	5.0	4 x 7	7.9
0.68													4 x 7	7.1	4 x 7	9.0
1													4 x 7	10	4 x 7	11
1.5													4 x 7	12	4 x 7	13
2.2													4 x 7	15	4 x 7	17
3.3											4 x 7	17	4 x 7	18	5 x 7	21
4.7									4 x 7	19	4 x 7	20	5 x 7	23	6.3 x 7	26
6.8									5 x 7	23	5 x 7	24	6.3 x 7	28	6.3 x 7	29
10							4 x 7	25	5 x 7	28	5 x 7	30	5 x 7	31	6.3 x 7	40
15							5 x 7	31	5 x 7	35	6.3 x 7	41	6.3 x 7	48		
22			4 x 7	31	5 x 7	35	5 x 7	39	6.3 x 7	43	6.3 x 7	47	6.3 x 7	50		
33	4 x 7	26	5 x 7	39	5 x 7	43	6.3 x 7	49	6.3 x 7	53	6.3 x 7	64				
47	4 x 7	34	5 x 7	39	6.3 x 7	53	6.3 x 7	59	6.3 x 7	65						
68	5 x 7	48	6.3 x 7	65	6.3 x 7	72	6.3 x 7	83								
100	5 x 7	61	6.3 x 7	71	6.3 x 7	80	6.3 x 7	95								
150	6.3 x 7	88	6.3 x 7	90												
220	6.3 x 7	95	6.3 x 7	120												

Rated Ripple Current (mArms/ 85 at 120Hz)  
 Case Size ØDxL (mm)