

SEV SERIES

85°C Standard, Lead Free Reflow Soldering

◆ FEATURES

- Case Dia $\phi 3 \sim \phi 18$ mm
- RoHS compliance.
- Lead free reflow soldering is available.
- Available for high density mounting.



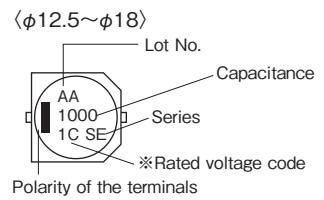
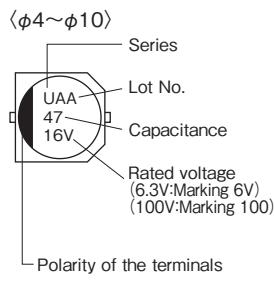
◆ SPECIFICATIONS

Items	Characteristics																																																					
Category Temperature Range	$-40 \sim +85^\circ\text{C}$																																																					
Rated Voltage Range	$4 \sim 100\text{Vdc}$																																																					
Capacitance Tolerance	$\pm 20\%$ ($20^\circ\text{C}, 120\text{Hz}$)																																																					
Leakage Current(MAX)	I=0.01CV or $3\mu\text{A}$ whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																																					
(tan δ) Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th></th> <th>Rated Voltage (Vdc)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>$\phi 4, \phi 5, \phi 6.3 \times 5.5$</td> <td>0.40</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> <td>—</td> <td>—</td> </tr> <tr> <td></td> <td>$\phi 6.3 \times 8, \phi 8 \sim \phi 12.5$</td> <td>0.50</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> </tr> <tr> <td></td> <td>$\phi 16, \phi 18$</td> <td>—</td> <td>0.48</td> <td>0.34</td> <td>0.24</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> <p>($20^\circ\text{C}, 120\text{Hz}$) When rated capacitance is over $1000\mu\text{F}$, tanδ shall be added 0.02 to the listed value with increase of every $1000\mu\text{F}$.</p>											Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100	tan δ	$\phi 4, \phi 5, \phi 6.3 \times 5.5$	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—		$\phi 6.3 \times 8, \phi 8 \sim \phi 12.5$	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10		$\phi 16, \phi 18$	—	0.48	0.34	0.24	0.18	0.14	0.12	0.12	0.10
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Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 85°C , the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within $\pm 25\%$ of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>										Capacitance Change	Within $\pm 25\%$ of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																																						
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◆ MULTIPLIER FOR RIPPLE CURRENT

	Frequency(Hz)	60(50)	120	500	1k	10k \leq
Coefficient	0.47~ $1\mu\text{F}$	0.50	1.00	1.20	1.30	1.50
	2.2~ $4.7\mu\text{F}$	0.65	1.00	1.20	1.30	1.50
	10~ $47\mu\text{F}$	0.80	1.00	1.20	1.30	1.50
	100~ $1000\mu\text{F}$	0.80	1.00	1.10	1.15	1.20
	2200~ $10000\mu\text{F}$	0.80	1.00	1.05	1.10	1.15

◆ MARKING



Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A

◆ PART NUMBER

□□□ SEV
Rated Voltage Series □□□□□
Capacitance Capacitance Tolerance □□□ Option D×L
Case Size

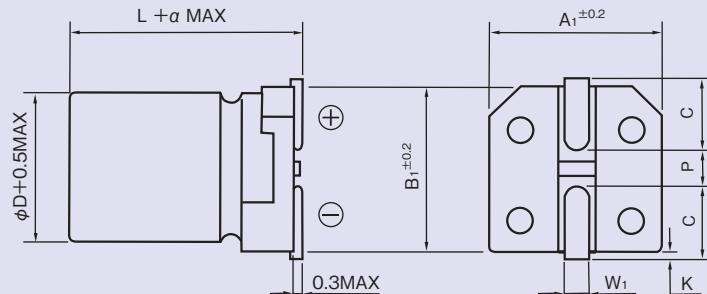


CHIP ALUMINUM ELECTROLYTIC CAPACITORS

SEV

◆ DIMENSIONS

(mm)



ϕD	L	A1	B1	C	W1	P	K	α
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	5.5	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

◆ STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

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