

SEV SERIES
85°C Standard

- Load Life : 85°C 2000 hours.
- AEC-Q200.


◆ SPECIFICATIONS

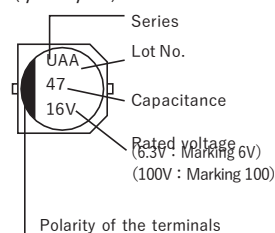
Items	Characteristics																																																			
Category Temperature Range	- 40 ~ + 85°C																																																			
Rated Voltage Range	4 ~ 100Vdc																																																			
Capacitance Tolerance	± 20% (20°C, 120Hz)																																																			
Leakage Current(MAX)	I = 0.01CV or 3 μ A whichever is greater. (After 2 minutes application of rated voltage) I = Leakage Current(μ A) C = Capacitance(μ F) V = Rated Voltage(Vdc)																																																			
Dissipation Factor(MAX) (tan δ)	(20°C, 120Hz) <table><tr><td colspan="2">Rated Voltage (Vdc)</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><td>100</td></tr><tr><td rowspan="3">tan δ</td><td>φ 4, φ 5, φ 6.3×5.5</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>φ 6.3×8, φ 8 ~ φ 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>φ 16, φ 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></table> When rated capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.										Rated Voltage (Vdc)		4	6.3	10	16	25	35	50	63	100	tan δ	φ 4, φ 5, φ 6.3×5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—	φ 6.3×8, φ 8 ~ φ 12.5	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	φ 16, φ 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><tr><td>Capacitance Change</td><td colspan="10">Within ± 25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="10">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="10">Not more than the specified value.</td></tr></table>										Capacitance Change	Within ± 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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Low Temperature Stability Impedance Ratio(MAX)	20Hz) <table><tr><td colspan="2">Rated Voltage (Vdc)</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><td>100</td></tr><tr><td colspan="2">Z(-25°C)/Z(20°C)</td><td>7</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td colspan="2">Z(-40°C)/Z(20°C)</td><td>15</td><td>8</td><td>8</td><td>4</td><td>4</td><td>3</td><td>3</td><td>5</td><td>5</td></tr></table>										Rated Voltage (Vdc)		4	6.3	10	16	25	35	50	63	100	Z(-25°C)/Z(20°C)		7	4	3	2	2	2	2	2	2	Z(-40°C)/Z(20°C)		15	8	8	4	4	3	3	5	5									
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◆ MULTIPLIER FOR RIPPLE CURRENT

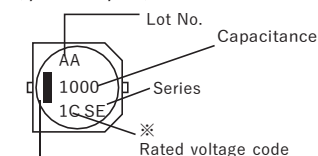
Frequency (Hz)	60 (50)	120	500	1k	10k ≤
0.47 ~ 1 μF	0.50	1.00	1.20	1.30	1.50
2.2 ~ 4.7 μF	0.65	1.00	1.20	1.30	1.50
10 ~ 47 μF	0.80	1.00	1.20	1.30	1.50
100 ~ 1000 μF	0.80	1.00	1.10	1.15	1.20
2200 ~ 10000 μF	0.80	1.00	1.05	1.10	1.15

◆ MARKING

< φ 4 ~ φ 10 >



< φ 12.5 ~ φ 18 >



Polarity of the terminals

※ Voltage code

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

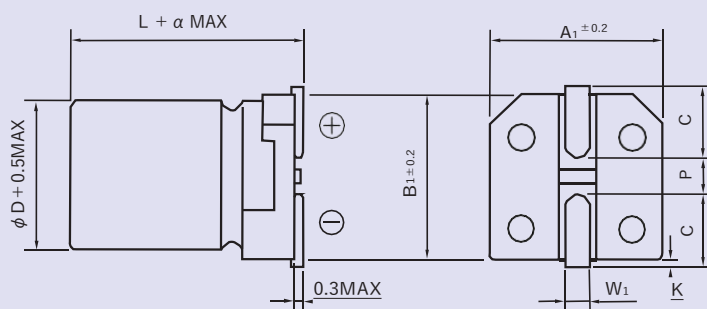
◆ PART NUMBER

□□□	SEV	□□□□□	□
Rated Voltage	Series	Capacitance	Capacitance Tolerance

□□□	D × L
Option	Case Size

◆ DIMENSIONS

(mm)



ϕ D	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)[illegible]