

SEV SERIES

85°C Standard, Lead Free Reflow Soldering

◆FEATURES

- Case Dia $\phi 4 \sim \phi 18\text{mm}$
- RoHS compliance.
- Lead free reflow soldering is available.
- Available for high density mounting.



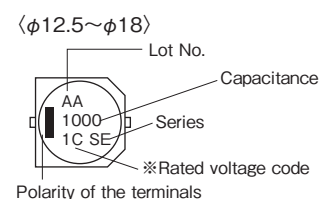
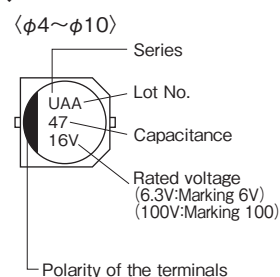
◆SPECIFICATIONS

Items	Characteristics																																																			
Category Temperature Range	-40~+85℃																																																			
Rated Voltage Range	4~100Vdc																																																			
Capacitance Tolerance	±20% (20℃,120Hz)																																																			
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																																			
(tanδ) Dissipation Factor(MAX)	<table><tr><th colspan="2">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><tr><td rowspan="3">tanδ</td><td>φ4,φ5,φ6.3×5.5</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>φ6.3×8,φ8~φ12.5</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>φ16,φ18</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> (20℃,120Hz) When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.										Rated Voltage (Vdc)		4	6.3	10	16	25	35	50	63	100	tanδ	φ4,φ5,φ6.3×5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—	φ6.3×8,φ8~φ12.5	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	φ16,φ18	—	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℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±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 ±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)	<table><tr><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><tr><td>Z(-25℃)/Z(20℃)</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>Z(-40℃)/Z(20℃)</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> (120Hz)										Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100	Z(-25℃)/Z(20℃)	7	4	3	2	2	2	2	2	2	Z(-40℃)/Z(20℃)	15	8	8	4	4	3	3	5	5												
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Z(-40℃)/Z(20℃)	15	8	8	4	4	3	3	5	5																																											

◆MULTIPLIER FOR RIPPLE CURRENT

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

◆MARKING



*Voltage code

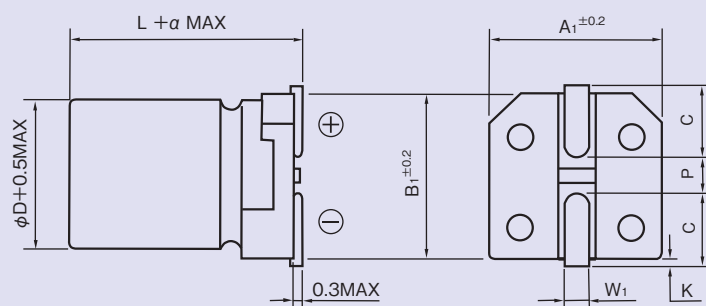
Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A

◆PART NUMBER

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

◆ DIMENSIONS

(mm)



ϕD	L	A ₁	B ₁	C	W ₁	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]