

SEV SERIES

85°C Standard

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

RoHS
compliance



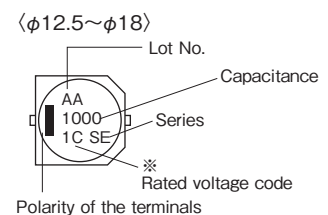
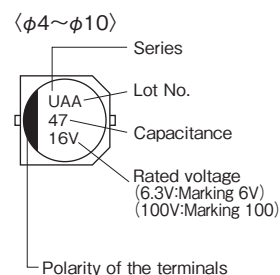
SPECIFICATIONS

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)																																										
Dissipation Factor(MAX) (tanδ)	<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">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><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℃)/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 colspan="2">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(−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																																	

MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≤
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

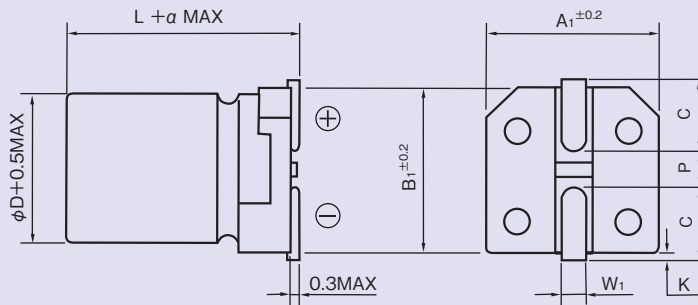
Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A

PART NUMBER

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

◆ 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 $\pm$ 0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7 $\pm$ 0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7 $\pm$ 0.4	0.5

◆ STANDARD SIZE

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

Vdc Cap(μF)	4		6.3		10		16		25		35		50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47													4×5.5	4.0				
1													4×5.5	8.4				
2.2													4×5.5	14				
3.3													4×5.5	17				
4.7									4×5.5	18	4×5.5	18	4×5.5	18				
10							4×5.5	25	4×5.5	25	5×5.5	30	5×5.5	30			8×10.5	90
22			4×5.5	29			4×5.5	30			6.3×5.5	48	6.3×5.5	48	8×10.5	75	8×10.5	130
33	4×5.5	28			4×5.5	32	5×5.5	43	6.3×5.5	54	6.3×5.5	58	6.3×8	95	8×10.5	160	10×10.5	170
47	4×5.5	34	4×5.5	36			5×5.5	50	6.3×5.5	60	6.3×8	105	8×10.5	240	8×10.5	170	12.5×13.5	250
100	5×5.5	61	5×5.5	61	6.3×5.5	71	6.3×5.5	86	6.3×8	145	8×10.5	280	8×10.5	320	10×10.5	240	12.5×16	440
220	6.3×5.5	96	6.3×5.5	96	6.3×8	175	6.3×8	165	8×10.5	300	10×10.5	560	10×10.5	570	12.5×13.5	580	16×21.5	665
330			6.3×8	190	8×10.5	330	8×10.5	330	10×10.5	680			12.5×13.5	600	18×16.5	680	18×21.5	825
470	6.3×8	200	8×10.5	380	8×10.5	380	8×10.5	385	12.5×13.5	700	12.5×13.5	700	16×16.5	740	16×21.5	850		
1000			10×10.5	700	12.5×13.5	710	12.5×13.5	720	12.5×16	820	16×16.5	1000	18×21.5	1150				
2200			12.5×16	890	12.5×16	960	16×16.5	1150	16×21.5	1350	18×21.5	1550						
3300			16×16.5	1200	16×16.5	1300	16×21.5	1450	18×21.5	1700								
4700			16×16.5	1400	16×21.5	1500	18×21.5	1750										
6800			16×21.5	1650	18×21.5	1850												
10000			18×21.5	2000														