

SEV SERIES

85°C, Lead Free Reflow Soldering.

◆FEATURES

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



◆SPECIFICATIONS

Items	Characteristics																																																			
Category Temperature Range	-40~+85℃																																																			
Rated Voltage Range	4~100V.DC																																																			
Capacitance Tolerance	±20% (20℃, 120Hz)																																																			
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current( μA)                      C=Rated Capacitance( μF)                      V=Rated Voltage(V)																																																			
Dissipation Factor(MAX) (tan δ)	<table><tr><td colspan="2">Rated Voltage (V)</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>φ3</td><td>0.40</td><td>0.30</td><td>—</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.14</td><td>—</td><td>—</td></tr><tr><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~φ18</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></table> (20℃, 120Hz) When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.										Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100	tan δ	φ3	0.40	0.30	—	0.20	0.16	0.14	0.14	—	—	φ4, φ5, φ6.3×5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—	φ6.3×8, φ8~φ18	0.50	0.35	0.26	0.20	0.16	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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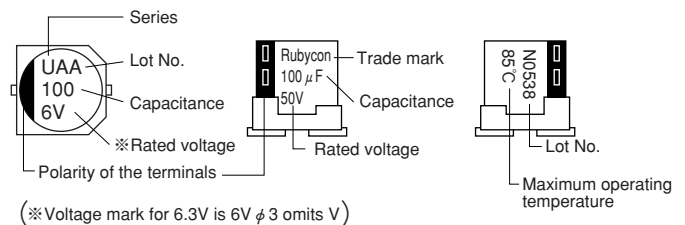
◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	60 (50)	120	500	1k	10k $\leq$
0.1~1 $\mu\text{F}$	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

$\langle \phi 3 \sim \phi 6.3, \phi 8 \times 6.5 \rangle$        $\langle \phi 8 \times 10.5, \phi 10 \sim \phi 18 \rangle$

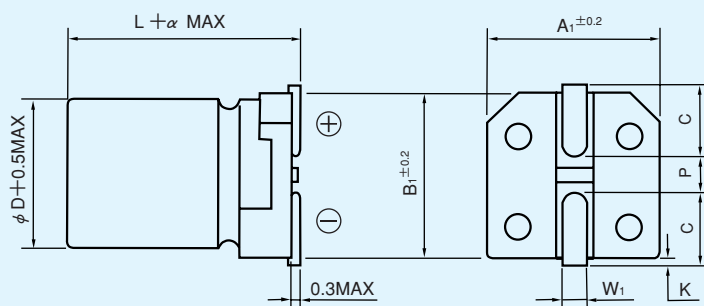


◆PART NUMBER

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

## ◆ DIMENSIONS

(mm)



$\phi 8 \times 10.5 \sim \phi 18$  have sleeve.

$\phi$ D	L	A <sub>1</sub>	B <sub>1</sub>	C	W <sub>1</sub>	P	K	$\alpha$
3	5.5	3.3	3.3	1.5	0.45~0.8	0.8	0.5 MAX	0
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, RATED RIPPLE CURRENT**

Size  $\phi$  D×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)[illegible]