

**SEV SERIES**
**85°C Standard, Lead Free Reflow Soldering.**
**◆ FEATURES**

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

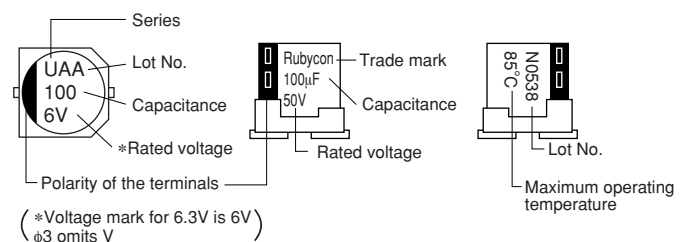

**◆ SPECIFICATIONS**

Items	Characteristics																																														
Category Temperature Range	-40 ~ +85°C																																														
Rated Voltage Range	4 ~ 100V.DC																																														
Capacitance Tolerance	± 20% (20°C, 120Hz)																																														
Leakage Current(MAX)	I=0.01CV or 3 $\mu$ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current( $\mu$ A)      C=Rated Capacitance( $\mu$ F)      V=Rated Voltage(V)																																														
Dissipation Factor(MAX) (tan $\delta$ )	<table border="1"> <thead> <tr> <th colspan="2">Rated Voltage (V)</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> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">tan<math>\delta</math></td> <td><math>\phi 3</math></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> <td></td> </tr> <tr> <td><math>\phi 4, \phi 5, \phi 6.3 \times 5.5</math></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> <td></td> </tr> <tr> <td><math>\phi 6.3 \times 8, \phi 8 \sim \phi 18</math></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> <td></td> </tr> </tbody> </table> <p>When rated capacitance is over 1000<math>\mu</math> F, tan<math>\delta</math> shall be added 0.02 to the listed value with increase of every 1000<math>\mu</math> F.</p>	Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)	tan $\delta$	$\phi 3$	0.40	0.30	—	0.20	0.16	0.14	0.14	—	—		$\phi 4, \phi 5, \phi 6.3 \times 5.5$	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—		$\phi 6.3 \times 8, \phi 8 \sim \phi 18$	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°C, the capacitors shall meet the following requirements. <table border="1"> <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 $\leq$
Coefficient	0.1 ~ 1 $\mu$ F	0.50	1.00	1.20	1.30	1.50
	2.2 ~ 4.7 $\mu$ F	0.65	1.00	1.20	1.30	1.50
	10 ~ 47 $\mu$ F	0.80	1.00	1.20	1.30	1.50
	100 ~ 1000 $\mu$ F	0.80	1.00	1.10	1.15	1.20
	2200 ~ 10000 $\mu$ 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**
