

**SEV SERIES**

85°C Standard, Lead Free Reflow Soldering.

◆ **FEATURES**

- Case Dia  $\phi$  3~ $\phi$  18mm
- 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)																																																									
(tan $\delta$ ) Dissipation Factor(MAX)	<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="4">tan <math>\delta</math></td> <td><math>\phi</math> 3</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</math> 4<math>\phi</math> 5<math>\phi</math> 6.3<math>\times</math>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> <td></td> </tr> <tr> <td><math>\phi</math> 6.3<math>\times</math>8<math>\phi</math> 8~<math>\phi</math> 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> <td></td> </tr> <tr> <td><math>\phi</math> 16,<math>\phi</math> 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> <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~ $\phi$ 12.5	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10		$\phi$ 16, $\phi$ 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 border="1"> <tr> <td>Capacitance Change</td> <td>Within <math>\pm</math>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 $\pm$ 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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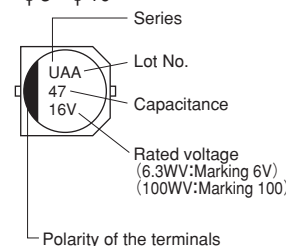
◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

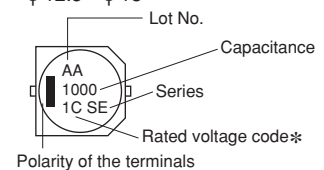
Frequency (Hz)	60 (50)	120	500	1k	10k $\leq$
0.1~1 $\mu$ F	0.50	1.00	1.20	1.30	1.50
2.2~4.7 $\mu$ F	0.65	1.00	1.20	1.30	1.50
10~47 $\mu$ F	0.80	1.00	1.20	1.30	1.50
100~1000 $\mu$ F	0.80	1.00	1.10	1.15	1.20
2200~10000 $\mu$ F	0.80	1.00	1.05	1.10	1.15

◆ **MARKING**

< $\phi$  3~ $\phi$  10 >



< $\phi$  12.5~ $\phi$  18 >



\* Voltage code

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

◆ **PART NUMBER**

