

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)																																																												
Dissipation Factor(MAX) (tan $\delta$ )	<table border="1"> <thead> <tr> <th rowspan="2">Rated Voltage (V)</th> <th colspan="10">(20°C, 120Hz)</th> </tr> <tr> <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> </thead> <tbody> <tr> <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> </tr> <tr> <td><math>\phi</math> 4, <math>\phi</math> 5, <math>\phi</math> 6.3x5.5</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><math>\phi</math> 6.3x8, <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> </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> </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)	(20°C, 120Hz)										4	6.3	10	16	25	35	50	63	100	$\phi$ 3	0.40	0.30	-	0.20	0.16	0.14	0.14	-	-	$\phi$ 4, $\phi$ 5, $\phi$ 6.3x5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	-	-	$\phi$ 6.3x8, $\phi$ 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	<p>After applying rated voltage with rated ripple current for 2000 hrs at 85°C, the capacitors shall meet the following requirements.</p> <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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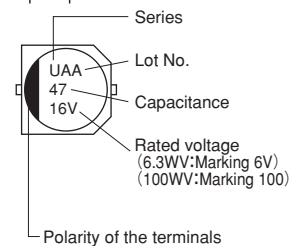
◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

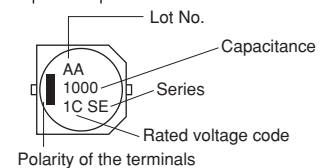
Frequency (Hz)	60(50)	120	500	1k	10k $\leq$
0.1~1 $\mu$ F	0.50	1.00	1.20	1.30	1.50
2.2~4.7 $\mu$ F	0.65	1.00	1.20	1.30	1.50
10~47 $\mu$ F	0.80	1.00	1.20	1.30	1.50
100~1000 $\mu$ F	0.80	1.00	1.10	1.15	1.20
2200~10000 $\mu$ F	0.80	1.00	1.05	1.10	1.15

◆ MARKING

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



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



Voltage code (V)	6.3	10	16	25	35	50	63	100
Rated Voltage	6J	1A	1C	1E	1V	1H	1J	2A

◆ PART NUMBER

