

SEV SERIES

85°C Standard, Lead Free Reflow Soldering.

◆ **FEATURES**

- Case Dia ϕ 3~ ϕ 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 μ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																																																									
Dissipation Factor(MAX) (tan δ)	<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">tanδ</td> <td>ϕ 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>ϕ 4, ϕ 5, ϕ 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> <td>-</td> </tr> <tr> <td>ϕ 6.3x8, ϕ 8~ϕ 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>ϕ 16, ϕ 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 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.</p>	Rated Voltage (V)		4	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)	tan δ	ϕ 3	0.40	0.30	-	0.20	0.16	0.14	0.14	-	-	-	ϕ 4, ϕ 5, ϕ 6.3x5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	-	-	-	ϕ 6.3x8, ϕ 8~ ϕ 12.5	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	-	ϕ 16, ϕ 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 ±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 border="1"> <thead> <tr> <th>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>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</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> <td>-</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</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> <td>-</td> </tr> </tbody> </table>	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100	(120Hz)	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2	2	2	-	Z(-40°C)/Z(20°C)	15	8	8	4	4	3	3	5	5	-																								
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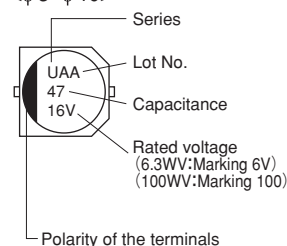
◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

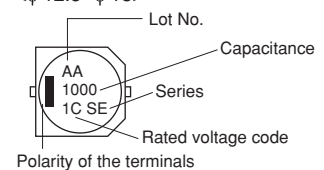
Frequency (Hz)	60(50)	120	500	1k	10k \leq
0.1~1 μ F	0.50	1.00	1.20	1.30	1.50
2.2~4.7 μ F	0.65	1.00	1.20	1.30	1.50
10~47 μ F	0.80	1.00	1.20	1.30	1.50
100~1000 μ F	0.80	1.00	1.10	1.15	1.20
2200~10000 μ F	0.80	1.00	1.05	1.10	1.15

◆ **MARKING**

< ϕ 3~ ϕ 10>



< ϕ 12.5~ ϕ 18>



Polarity of the terminals

Voltage code

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

◆ **PART NUMBER**

□□□ SEV □□□□□ □ □□□ DxL
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Case Size

