

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

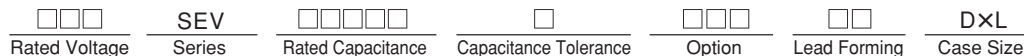
Items	Characteristics																																																		
Category Temperature Range	-40~+85°C																																																		
Rated Voltage Range	4~100V.DC																																																		
Capacitance Tolerance	±20% (20°C, 120Hz)																																																		
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)																																																		
(tan δ) Dissipation Factor(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> </tr> </thead> <tbody> <tr> <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> </tr> <tr> <td>ϕ 4ϕ 5ϕ 6.3\times5.5</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>ϕ 6.3\times8ϕ 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> </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> </tr> </tbody> </table> <p>(20°C, 120Hz)</p> <p>When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.</p>	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100	ϕ 3	0.40	0.30	-	0.20	0.16	0.14	0.14	-	-	ϕ 4 ϕ 5 ϕ 6.3 \times 5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	-	-	ϕ 6.3 \times 8 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 \pm25% 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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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> </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> </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> </tr> </tbody> </table> <p>(120Hz)</p>	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100	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

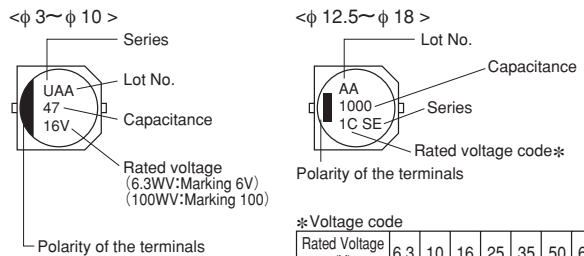
Frequency coefficient

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

◆ PART NUMBER



◆ MARKING

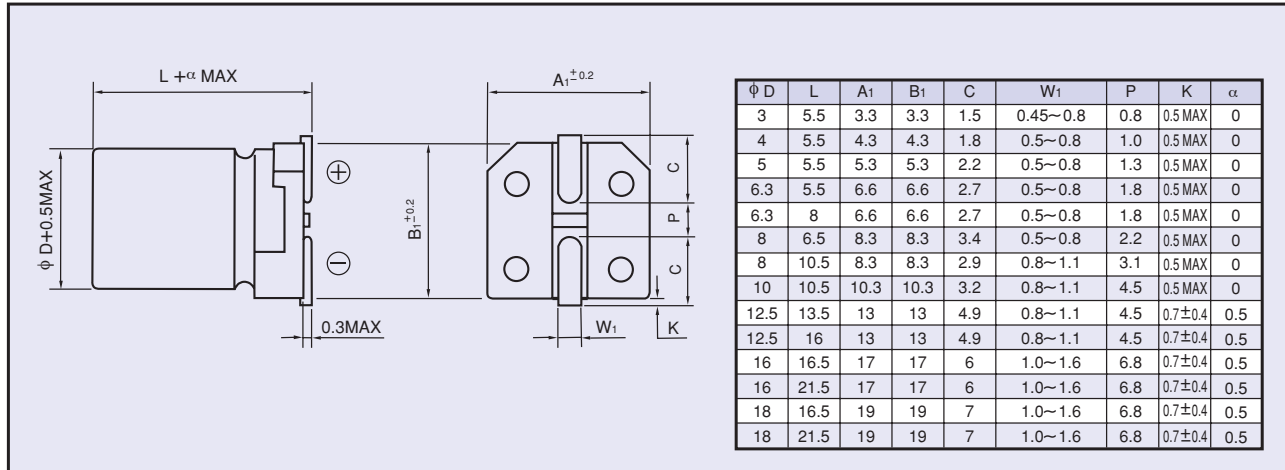


*: Voltage code

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Size φ D×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV (V.DC)	4 (0G)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													3×5.5	1.0				
0.22													4×5.5	2.0				
0.33													3×5.5	2.8				
0.47													4×5.5	4.0				
1													3×5.5	8.0				
2.2											3×5.5	8.4	4×5.5	10				
3.3											3×5.5	10	4×5.5	17				
4.7							3×5.5	12	3×5.5	12	4×5.5	18	4×5.5	18			8×10.5	80
10							4×5.5	25	4×5.5	25	5×5.5	30	5×5.5	30			8×10.5	90
22	3×5.5	19	3×5.5	21			4×5.5	30			6.3×5.5	48	6.3×5.5	48	8×10.5	75	8×10.5	130
33	4×5.5	28			4×5.5	32	5×5.5	43	6.3×5.5	54	6.3×5.5	58	6.3×8	95	8×10.5	160	10×10.5	170
47	4×5.5	34	4×5.5	36			5×5.5	50	6.3×5.5	60	6.3×8	105	8×10.5	240	8×10.5	170	12.5×13.5	250
100	5×5.5	61	5×5.5	61	6.3×5.5	71	6.3×5.5	86	6.3×8	145	8×10.5	280	8×10.5	320	10×10.5	240	12.5×16	440
220	6.3×5.5	96	6.3×5.5	96	6.3×8	175	6.3×8	165	8×10.5	300	10×10.5	570	12.5×13.5	580	12.5×16	580	16×21.5	665
330			6.3×8	190	8×10.5	330	8×10.5	330	10×10.5	680			12.5×13.5	600	18×16.5	680	18×21.5	825
470	6.3×8	200	8×10.5	380	8×10.5	380	8×10.5	385	12.5×13.5	700	12.5×13.5	700	16×16.5	740	16×21.5	850		
1000			10×10.5	700	12.5×13.5	710	12.5×13.5	720	12.5×16	820	16×16.5	1000	18×21.5	1150				
2200			12.5×16	890	12.5×16	960	16×16.5	1150	16×21.5	1350	18×21.5	1550						
3300			16×16.5	1200	16×16.5	1300	16×21.5	1450	18×21.5	1700								
4700			16×16.5	1400	16×21.5	1500	18×21.5	1750										
6800			16×21.5	1650	18×21.5	1850												
10000			18×21.5	2000														