

SEV SERIES

85°C Standard

- Load Life : 85°C 2000 hours.
- AEC-Q200.



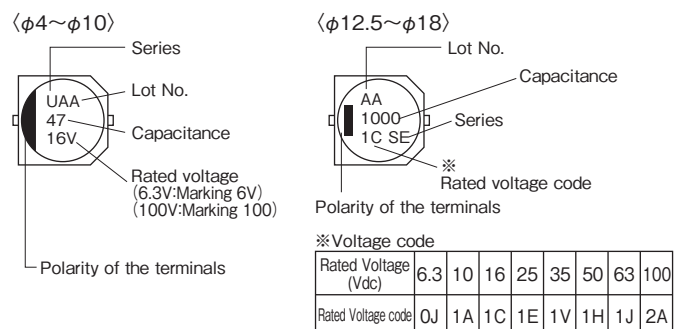
◆ SPECIFICATIONS

Items	Characteristics																																										
Category Temperature Range	-40~+85°C																																										
Rated Voltage Range	4~100Vdc																																										
Capacitance Tolerance	±20% (20°C, 120Hz)																																										
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA)      C=Capacitance(μF)      V=Rated Voltage(Vdc)																																										
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</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>φ4, φ5, φ6.3×5.5</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 rowspan="3"></td> </tr> <tr> <td>φ6.3×8, φ8~φ12.5</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>φ16, φ18</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 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.</p>	Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)	φ4, φ5, φ6.3×5.5	0.40	0.26	0.22	0.18	0.16	0.13	0.12	—	—		φ6.3×8, φ8~φ12.5	0.50	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	φ16, φ18	—	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"> <tbody> <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> </tbody> </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 (Vdc)</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 (Vdc)	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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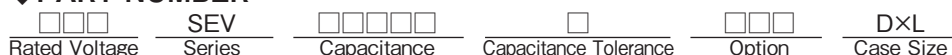
◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≤
0.47~1μF	0.50	1.00	1.20	1.30	1.50
2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
10~47μF	0.80	1.00	1.20	1.30	1.50
100~1000μF	0.80	1.00	1.10	1.15	1.20
2200~10000μF	0.80	1.00	1.05	1.10	1.15

◆ MARKING

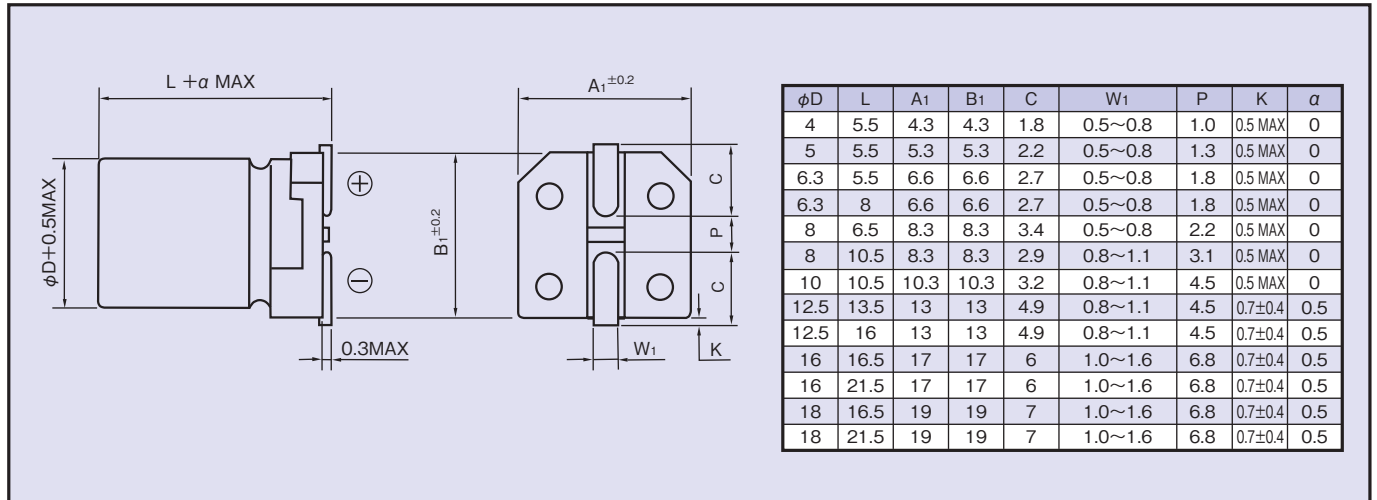


◆ PART NUMBER



◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

Vdc Cap(μF)	4		6.3		10		16		25		35		50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47													4×5.5	4.0				
1													4×5.5	8.4				
2.2													4×5.5	14				
3.3													4×5.5	17				
4.7									4×5.5	18	4×5.5	18	4×5.5	18				
10							4×5.5	25	4×5.5	25	5×5.5	30	5×5.5	30			8×10.5	90
22			4×5.5	29			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														

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[>>Rubycon\(红宝石\)](#)