

SEV SERIES
85°C, Lead Free Reflow Soldering.
◆FEATURES

- Case Dia $\phi 3 \sim \phi 18$ mm
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.


◆SPECIFICATIONS

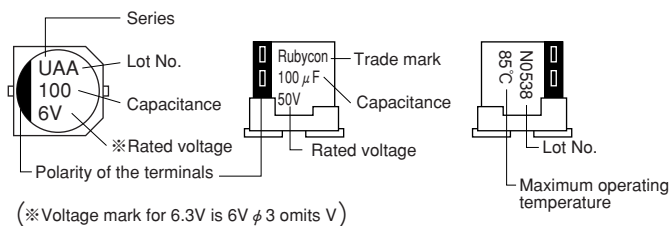
Items	Characteristics																																								
Category Temperature Range	-40~+85°C																																								
Rated Voltage Range	4~100V.DC																																								
Capacitance Tolerance	±20% (20°C, 120Hz)																																								
Leakage Current(MAX)	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>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>$\phi 3$</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>$\phi 4, \phi 5, \phi 6.3 \times 5.5$</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> </tr> <tr> <td>$\phi 6.3 \times 8, \phi 8 \sim \phi 18$</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> </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	$\phi 3$	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	—	—	$\phi 6.3 \times 8, \phi 8 \sim \phi 18$	0.50	0.35	0.26	0.20	0.16	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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◆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

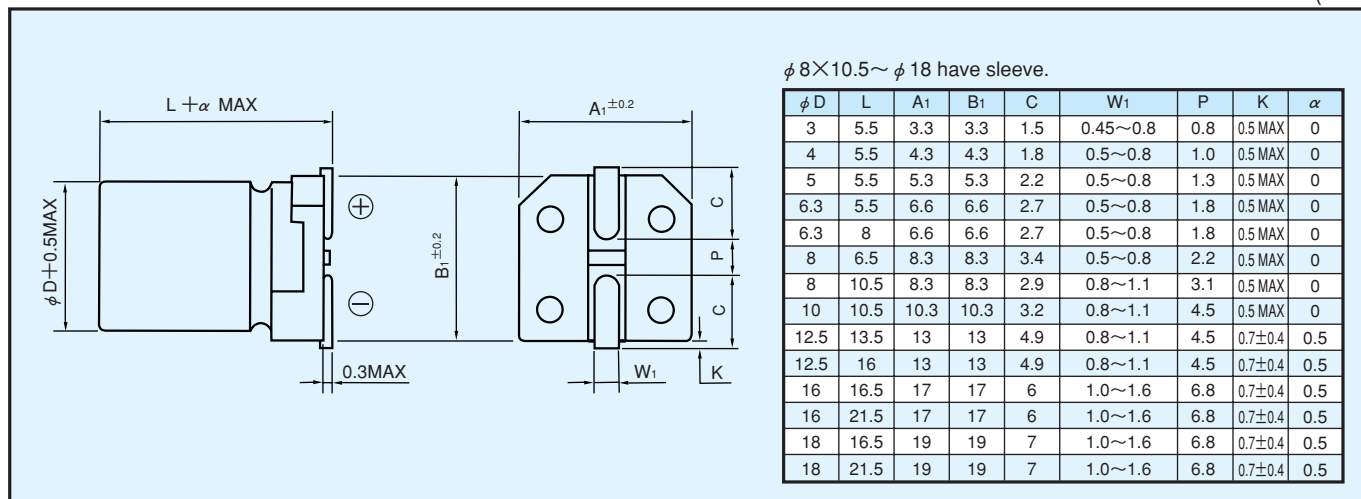
◆MARKING

 〈 $\phi 3 \sim \phi 6.3, \phi 8 \times 6.5$ 〉 〈 $\phi 8 \times 10.5, \phi 10 \sim \phi 18$ 〉

◆PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV(V.DC) Cap(μF)	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												4×5.5	8.4					
3.3												3×5.5	10					
4.7												4×5.5	17					
10												4×5.5	18					
22												3×5.5	12					
33												4×5.5	18					
47												5×5.5	22					
100												4×5.5	25					
220												3×5.5	18					
330												4×5.5	30					
470												5×5.5	39					
1000												6.3×5.5	54					
2200												6.3×5.5	58					
3300												6.3×8	105					
4700												8×10.5	240					
6800												8×10.5	280					
10000												10×10.5	500					