

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

- Case Dia  $\phi 3\sim\phi 10\text{mm}$
- Lead free reflow soldering is available.
- Available for high density mounting.


**◆ SPECIFICATIONS**

Items	Characteristics																																													
Category Temperature Range	-40~+85°C																																													
Rated Voltage Range	4~50V.DC																																													
Capacitance Tolerance	$\pm 20\%$ (20°C, 120Hz)																																													
Leakage Current(MAX)	$I=0.01CV$ or $3\mu\text{A}$ whichever is greater. (After 2 minutes application of rated voltage) $I$ =Leakage Current( $\mu\text{A}$ ) $C$ =Rated Capacitance( $\mu\text{F}$ ) $V$ =Rated Voltage(V)																																													
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>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td><math>\phi 3</math></td> <td>0.48</td> <td>0.34</td> <td>-</td> <td>0.22</td> <td>0.18</td> <td>0.15</td> <td>0.14</td> <td></td> </tr> <tr> <td><math>\tan\delta</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><math>\phi 4\sim 6.3</math></td> <td>0.48</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td></td> </tr> <tr> <td><math>\phi 8, \phi 10</math></td> <td>-</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td></td> </tr> </tbody> </table>	Rated Voltage (V)	4	6.3	10	16	25	35	50	(20°C, 120Hz)	$\phi 3$	0.48	0.34	-	0.22	0.18	0.15	0.14		$\tan\delta$									$\phi 4\sim 6.3$	0.48	0.30	0.24	0.20	0.16	0.14	0.12		$\phi 8, \phi 10$	-	0.30	0.24	0.20	0.16	0.14	0.12	
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**◆ MULTIPLIER FOR RIPPLE CURRENT**

(1) Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k $\leq$
Coefficient					
0.1~47 $\mu\text{F}$	0.8	1.0	1.20	1.30	1.50
100~1000 $\mu\text{F}$	0.8	1.0	1.10	1.15	1.20

(2) Temperature coefficient

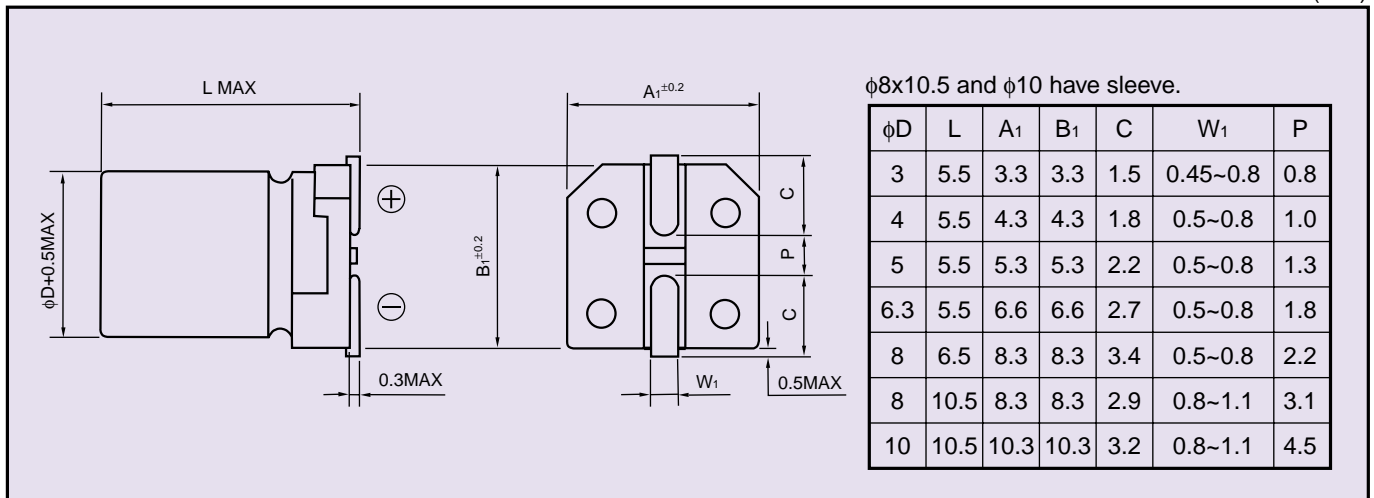
Ambient Temperature (°C)	85	70	50 $\geq$
Coefficient	1.0	1.6	2.0

**◆ PART NUMBER**

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	SEV	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	DxL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

**◆ DIMENSIONS**

(mm)


**◆ STANDARD SIZE, RATED RIPPLE CURRENT**

Size φDxL(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)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													3x5.5 4x5.5	1.0
0.22													3x5.5 4x5.5	2.0
0.33													3x5.5 4x5.5	2.8
0.47													3x5.5 4x5.5	4.0
1													3x5.5 4x5.5	8.0 8.4
2.2											3x5.5	8.4	3x5.5 4x5.5	10 14
3.3											3x5.5	10	4x5.5	17
4.7							3x5.5 4x5.5	12 18	3x5.5 4x5.5	12 18	4x5.5	18	5x5.5	22
10							3x5.5 4x5.5	18 25			5x5.5	30	6.3x5.5	35
22	3x5.5	19	3x5.5 4x5.5	21 29			5x5.5	39			6.3x5.5	48	8x6.5	80
33	4x5.5	28			5x5.5	43			6.3x5.5	54			8x10.5	200
47	4x5.5	34	5x5.5	46			6.3x5.5	60			8x6.5	115	8x10.5 10x10.5	240 280
100	5x5.5	61	6.3x5.5	71			8x6.5	135	8x6.5 8x10.5	160 280	8x10.5 10x10.5	280 480	8x10.5 10x10.5	320 500
220	6.3x5.5	96					8x10.5	290	8x10.5 10x10.5	300 560	10x10.5	570		
330					8x10.5	330	8x10.5 10x10.5	330 670	10x10.5	680				
470			8x10.5	380	8x10.5 10x10.5	380 680	10x10.5	690						
1000			10x10.5	700										