

RSV SERIES
85°C 4.6mm MAX Height.
◆ FEATURES

- Reflow soldering is available.
- Available for high density mounting.


◆ SPECIFICATIONS

Items	Characteristics																											
Operating Temperature Range	-40~+85°C																											
Rated Voltage Range	4~50V.DC																											
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=Nominal Capacitance(μF) V=Rated Voltage(V)																											
Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.45</td> <td>0.30</td> <td>0.24</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td></td> </tr> </table>	Rated Voltage (V)	4	6.3	10	16	25	35	50	(20°C, 120Hz)	tanδ	0.45	0.30	0.24	0.19	0.16	0.14	0.14										
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Load Life	<p>After applying rated voltage with max ripple current for 1000 hrs at 85°C, the capacitors shall meet the following requirements.</p> <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 250% 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 250% 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"> <tr> <td>Rated Voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>(120Hz)</td> </tr> <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></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></td> </tr> </table>	Rated Voltage (V)	4	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	7	4	3	2	2	2	2		Z(-40°C)/Z(20°C)	15	8	8	4	4	3	3	
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Z(-40°C)/Z(20°C)	15	8	8	4	4	3	3																					

◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency coefficient

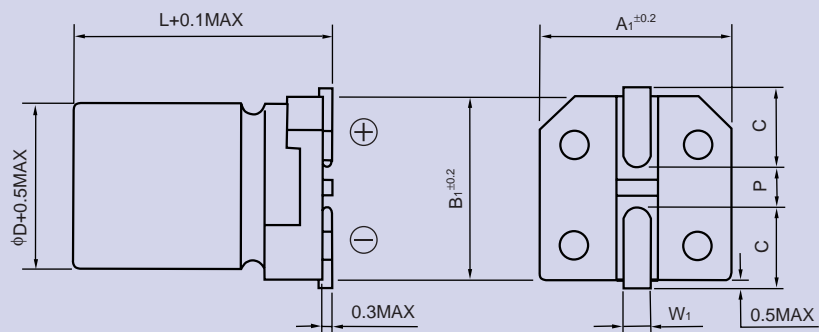
Frequency(Hz)	60(50)	120	500	1k	10k≤
0.1~47μF	0.8	1.0	1.20	1.30	1.50
100~220μF	0.8	1.0	1.10	1.15	1.20

(2) Temperature coefficient

Ambient Temperature (°C)	85	70	50≥
Coefficient	1.0	1.6	2.0

◆ DIMENSIONS

(mm)



ϕD	L	A_1	B_1	C	W_1	P
4	4.5	4.3	4.3	1.8	0.5~0.8	1.0
5	4.5	5.3	5.3	2.2	0.5~0.8	1.3
6.3	4.5	6.6	6.6	2.7	0.5~0.8	1.8

◆ STANDARD SIZE, MAX. PERMISSIBLE 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)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													4x4.5	1.0
0.22													4x4.5	2.0
0.33													4x4.5	2.8
0.47													4x4.5	4.0
1													4x4.5	8.4
2.2													4x4.5	14
3.3													4x4.5	17
4.7											4x4.5	18	5x4.5	22
10							4x4.5	25			5x4.5	30	6.3x4.5	35
22			4x4.5	29			5x4.5	39			6.3x4.5	48		
33	4x4.5	28			5x4.5	43			6.3x4.5	54				
47	4x4.5	34	5x4.5	46			6.3x4.5	60						
100	5x4.5	61	6.3x4.5	71										
220	6.3x4.5	96												