

RVE series

+105°C, Low Impedance, Lead Free Reflow Soldering
对应无铅焊接, +105°C低阻抗品



◆ FEATURES

- Low Impedance.
- Life 2000 hours at +105°C.
- Available for high density mounting
- RoHS Compliant and lead-free.

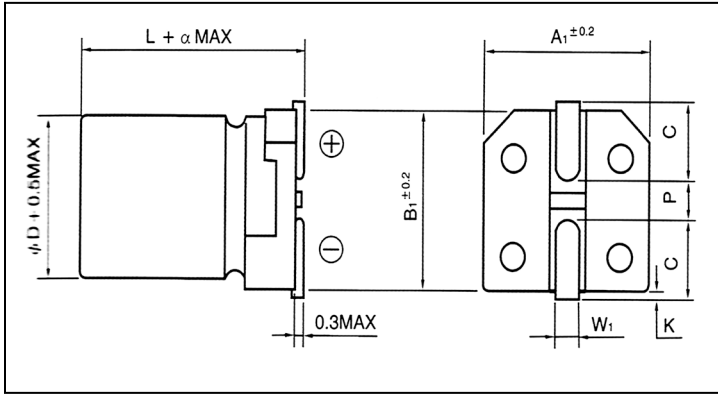
◆ SPECIFICATIONS

Items	Characteristics																												
Category Temperature Range	-55~+105°C																												
Rated Voltage Range	6.3~50V.DC																												
Nominal Capacitance Range	4.7~1000 μF																												
Capacitance Tolerance	±20%(120Hz,+20°C)																												
Leakage Current(MAX, 20°C)	I=0.01CV or 3uA, whichever is greater. after 2 minutes with rated working voltage																												
Dissipation Factor(MAX) Tan δ (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan δ (Max)</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	Tan δ (Max)	0.26	0.19	0.16	0.14	0.12	0.10														
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Tan δ (Max)	0.26	0.19	0.16	0.14	0.12	0.10																							
When nominal capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with Increase of every 1000 μF																													
Load Life	After applying rated voltage with max ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements																												
	<table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% 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 ±30% 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 Rate(MAX) (120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</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>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	2	2	2	2	2	2	Z-40°C/Z+20°C	3	3	3	3	3	3	Z-55°C/Z+20°C	4	4	4	3	3	3
	Rated Voltage(V)	6.3	10	16	25	35	50																						
	Z-25°C/Z+20°C	2	2	2	2	2	2																						
	Z-40°C/Z+20°C	3	3	3	3	3	3																						
Z-55°C/Z+20°C	4	4	4	3	3	3																							

◆ RIPPLE CURRENT MULTIPLIER

Frequency(Hz)		120	500	10K	100K~
Coefficient	4.7uF	0.42	0.60	0.80	1.00
	10~33uF	0.45	0.75	0.90	1.00
	47~100uF	0.50	0.80	0.95	1.00
	220~1000uF	0.60	0.85	0.95	1.00

◆ CASE SIZE TABLE



ΦD	L	A1	B1	C	W1	P	K	α
4	5.4	4.3	4.3	1.8	0.5~0.8	1.0	0.5max	0
5	5.4	5.3	5.3	2.2	0.5~0.8	1.3	0.5max	0
6.3	5.4	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
6.3	7.7	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5max	0
8	10.2	8.3	8.3	2.9	0.8~1.1	3.1	0.5max	0
10	10.2	10.3	10.3	3.2	0.8~1.1	4.5	0.5max	0
10	13.5	10.3	10.3	3.2	0.8~1.1	4.5	0.7±0.4	0
12.5	13.5	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16.0	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17.0	17.0	6.0	1.0~1.6	6.8	0.7±0.4	0.5

◆ STANDARD RATINGS

Size:ΦD×L(mm),Ripple Current(mA r.m.s/105°C,100kHz),Impedance(Ω ,MAX at 20°C 100kHz)

wv (μF)	6.3V(OJ)			10V(1A)			16V(1C)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10							4×5.4	90	1.35
22	4×5.4						4×5.4 5×5.4	90 170	1.35 0.70
33				4×5.4	90	1.35	5×5.4	170	0.70
47	4×5.4 5×5.4	90 170	1.35 0.70				5×5.4 6.3×5.4	170 250	0.70 0.36
100	5×5.4 6.3×5.4	170 250	0.70 0.36				6.3×5.4 6.3×7.7	250 300	0.36 0.34
220	6.3×5.4 6.3×7.7	250 300	0.36 0.34	6.3×7.7	300	0.34	6.3×7.7	300	0.34
330	6.3×7.7	300	0.34				8×10.2	600	0.16
470				8×10.2	600	0.16	8×10.2	600	0.16
680				8×10.2	600	0.16	10×10.2	850	0.08
1000	8×10.2	600		10×10.2	850	0.08			

wv (μF)	25V(1E)			35V(1V)			50V(1H)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
4.7				4×5.4	90	1.45	4×5.4	60	2.90
10				4×5.4 5×5.4	90 170	1.45 0.70	5×5.4	85	1.52
22				5×5.4 6.3×5.4	170 250	0.70 0.36	6.3×5.4	165	0.88
33	5×5.4 6.3×5.4	170 250	0.70 0.36	6.3×5.4	250	0.36	6.3×5.4	165	0.88
47	6.3×5.4	250	0.36	6.3×5.4 6.3×7.7	250 300	0.36 0.34	6.3×7.7	195	0.68
100	6.3×7.7	300	0.34	6.3×7.7 8×10.2	300 600	0.34 0.16	6.3×7.7	195	0.68
220	8×10.2	600	0.16	8×10.2	600	0.16	8×10.2	350	0.34
330	8×10.2	600	0.16	10×10.2	850	0.09	10×10.2	670	0.18
470	10×10.2	850	0.09						