

RVZ series

+105°C, Low Impedance, Long Life, Lead Free Reflow Soldering

对应无铅焊接, +105°C低阻抗, 长寿命



◆ FEATURES

- Low Impedance.
- Life 5000 hours at +105°C.
- Available for high density mounting
- RoHS Compliant and lead-free.

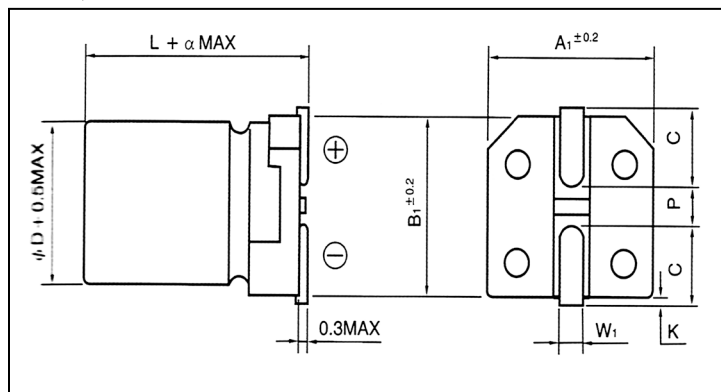
◆ SPECIFICATIONS

Items	Characteristics																																		
Category Temperature Range	-55~+105℃																																		
Rated Voltage Range	6.3~50V.DC																																		
Nominal Capacitance Rance	4.7~1000 μF																																		
Capacitance Tolerance	± 20%(120Hz,+20℃)																																		
Leakage Current(MAX, 20℃)	I=0.01CV or 3uA,whichever is greater. after 2 minutes with rated working voltage																																		
Dissipation Factor(MAX) Tan δ (20℃,120Hz)	<table><tr><td>Rated Voltage(V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><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></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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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 5000 hrs at 105℃,the capacitors shall meet the following requirements																																		
	Capacitance Change		Within ±30% of the initial value																																
	Dissipation Factor		Not more than300% of the specified value																																
	Leakage Current		Not more than the specified value																																
Low Temperature Stability Impedance Rate(MAX) (120Hz)	<table><tr><td>Rated Voltage(V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z-25℃/Z+20℃</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40℃/Z+20℃</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>Z-55℃/Z+20℃</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>							Rated Voltage(V)	6.3	10	16	25	35	50	Z-25℃/Z+20℃	2	2	2	2	2	2	Z-40℃/Z+20℃	3	3	3	3	3	3	Z-55℃/Z+20℃	4	4	4	3	3	3
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	Z-55℃/Z+20℃	4	4	4	3	3	3																												

◆ RIPPLE CURRENT MULTIPLIER

Frequency(Hz)		120	500	10K	100K~
Coefficient	4.7 μ F	0.42	0.60	0.80	1.00
	10~33 μ F	0.45	0.75	0.90	1.00
	47~100 μ F	0.50	0.80	0.95	1.00
	220~1000 μ F	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	5.4	5.3	5.3	2.2	0.5~0.8	1.3	0.5max	0.5
6.3	5.4	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0.5
6.3	7.7	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0.5
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5max	0.5
8	10.2	8.3	8.3	2.9	0.8~1.1	3.1	0.5max	0.5
10	10.2	10.3	10.3	3.2	0.8~1.1	4.5	0.5max	0.5
10	13.5	10.3	10.3	3.2	0.8~1.1	4.5	0.7±0.4	0.5
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: $\Phi D \times L$ (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	90	1.35
							5×5.4	170	0.70
33				4×5.4	90	1.35	5×5.4	170	0.70
47	4×5.4	90	1.35				5×5.4	170	0.70
	5×5.4	170	0.70				6.3×5.4	250	0.36
100	5×5.4	170	0.70				6.3×5.4	250	0.36
	6.3×5.4	250	0.36				6.3×7.7	300	0.34
220	6.3×5.4	250	0.36	6.3×7.7	300	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	90	1.45	5×5.4	85	1.52
				5×5.4	170	0.70			
22				5×5.4	170	0.70	6.3×5.4	165	0.88
				6.3×5.4	250	0.36			
33	5×5.4	170	0.70	6.3×5.4	250	0.36	6.3×5.4	165	0.88
	6.3×5.4	250	0.36						
47	6.3×5.4	250	0.36	6.3×5.4	250	0.36	6.3×7.7	195	0.68
				6.3×7.7	300	0.34			
100	6.3×7.7	300	0.34	6.3×7.7	300	0.34	6.3×7.7	195	0.68
				8×10.2	600	0.16			
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						