



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS RGV

RGV SERIES
Previous Series
105°C Long Life.

◆FEATURES

- Load Life : 105°C 2000 hours.
- Reflow soldering is available.
- Available for high density mounting.



◆SPECIFICATIONS

Items	Characteristics																																			
Category Temperature Range	−40~+105℃																																			
Rated Voltage Range	6.3~100V.DC																																			
Capacitance Tolerance	±20% (20℃, 120Hz)																																			
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																																			
Dissipation Factor(MAX)	<table border="1"><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><td>63</td><td>100</td></tr><tr><td>tan δ</td><td>0.30</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table> (20℃, 120Hz) When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.									Rated Voltage(V)	6.3	10	16	25	35	50	63	100	tan δ	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10									
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tan δ	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10																												
Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 105℃, the capacitors shall meet the following requirements. <table border="1"><tr><td>Capacitance Change</td><td colspan="8">Within ±30% of the initial value. (φ 8~18:±25%)</td></tr><tr><td>Dissipation Factor</td><td colspan="8">Not more than 300% of the specified value. (φ 8~18:200%)</td></tr><tr><td>Leakage Current</td><td colspan="8">Not more than the specified value.</td></tr></table>									Capacitance Change	Within ±30% of the initial value. (φ 8~18:±25%)								Dissipation Factor	Not more than 300% of the specified value. (φ 8~18:200%)								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>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Z(−25℃)/Z(20℃)</td><td>6</td><td>4</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(−40℃)/Z(20℃)</td><td>12</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td><td>5</td><td>5</td></tr></table> (120Hz)									Rated Voltage(V)	6.3	10	16	25	35	50	63	100	Z(−25℃)/Z(20℃)	6	4	4	3	2	2	2	2	Z(−40℃)/Z(20℃)	12	10	8	6	4	4	5	5
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◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

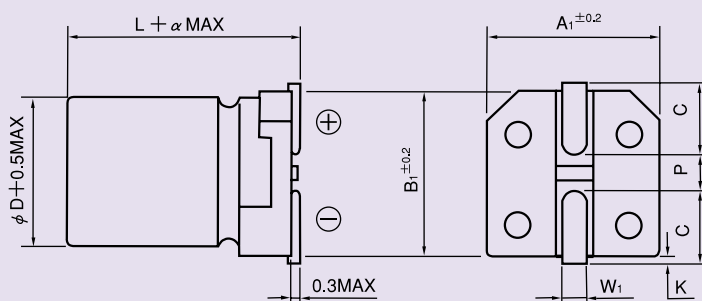
Frequency (Hz)		60 (50)	120	500	1k	10k≤
Coefficient	0.1~1 μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7 μF	0.65	1.00	1.20	1.30	1.50
	10~47 μF	0.80	1.00	1.20	1.30	1.50
	100~1000 μF	0.80	1.00	1.10	1.15	1.20
	2200~6800 μF	0.80	1.00	1.05	1.10	1.15

◆PART NUMBER

Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

◆ DIMENSIONS

(mm)



$\phi 8 \times 10.5 \sim \phi 18$ have sleeve.

ϕ D	L	A ₁	B ₁	C	W ₁	P	K	α
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	5.5	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

◆ **STANDARD SIZE, RATED RIPPLE CURRENT**

Size ϕ D×L(mm), Ripple Current (mA r.m.s./105°C, 120Hz)[illegible]