

RV series

High Voltage & 125°C High Temperature (35V~100V)

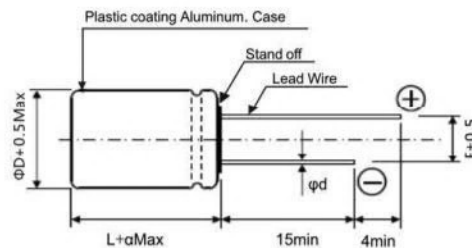
- High voltage, High temperature
- Load life of 2000 hours at 125°C
- Compliant to the RoHS directive (2011/65/EU)
- Suitable for High reliability requirement of Electronic Equipment.

耐高温高压固态铝电容器，具有优异的热稳定性，可承受125℃环境温度，产品满足RoHS指令(2011/65/EU)。适合用于提高电子设备的可靠度。

» Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +125°C	
Capacitance Range	10 ~ 560 uF	
Capacitance Tolerance	M: ±20%	
Rated Voltage Range	35V ~ 100V DC	
Dissipation Factor (at 120Hz, 20°C)	Not to exceed the value specified Not to exceed the value specified (after 2 minutes)	
Leakage Current	Not to exceed the value specified	
ESR (100K~300KHz)	Capacitance Change	Within ±20% of the value before test
Endurance 125°C, 2000h, at rated voltage	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
	Capacitance Change	Within ±20% of the value before test
Moisture Resistance Stored at 60°C, Rh90 ~ 95%, 1000h	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
	Capacitance Change	Within ±20% of the value before test

» Dimensions



Unit: mm

$\phi D \times L$	ϕD +0.5max.	α	F ± 0.5	ϕd ± 0.05
6.3 × 8	6.3	1.0	2.5	0.5
6.3 × 9	6.3	1.0	2.5	0.5
6.3 × 11	6.3	1.0	2.5	0.5
6.3 × 12	6.3	1.0	2.5	0.5
6.3 × 13	6.3	1.0	2.5	0.5
6.3 × 15	6.3	1.0	2.5	0.5
8 × 8	8.0	1.0	3.5	0.6
8 × 11.5	8.0	1.0	3.5	0.6

$\phi D \times L$	ϕD +0.5max.	α	F ± 0.5	ϕd ± 0.05
8 × 14	8.0	1.0	3.5	0.6
8 × 16	8.0	1.5	3.5	0.6
8 × 20	8.0	1.5	3.5	0.6
10 × 10	10.0	1.0	5.0	0.6
10 × 12.5	10.0	1.0	5.0	0.6
10 × 14	10.0	1.0	5.0	0.6
10 × 16	10.0	1.5	5.0	0.6
10 × 20	10.0	1.5	5.0	0.6

» Capacitance List

W.V (S.V) SIZE	35 (41)	50 (57.5)	63 (72)	80 (92)	100 (115)
6.3 × 8	56~82 uF	10~39 uF	10~27 uF		
6.3 × 9	68~100 uF	33~47 uF	22~33 uF		
6.3 × 11	82~120 uF	39~56 uF	27~39 uF		
6.3 × 12	100~150 uF	47~68 uF	33~47 uF		
6.3 × 13	100~150 uF	56~82 uF	39~56 uF		
6.3 × 15	120~180 uF	68~100 uF	47~68 uF		
8 × 8	82~120 uF	39~68 uF	27~47 uF	18~27 uF	10~18 uF
8 × 11.5	100~180 uF	56~82 uF	39~68 uF	27~39 uF	18~27 uF
8 × 14	150~270 uF	68~120 uF	56~82 uF	33~56 uF	22~39 uF
8 × 16	180~330 uF	82~150 uF	68~100 uF	39~68 uF	27~47 uF
8 × 20	220~330 uF	100~180 uF	82~120 uF	47~82 uF	33~56 uF
10 × 10	120~220 uF	68~120 uF	47~82 uF	27~56 uF	18~33 uF
10 × 12.5	180~330 uF	82~150 uF	68~120 uF	39~68 uF	27~47 uF
10 × 14	220~390 uF	100~180 uF	82~150 uF	47~100 uF	33~56 uF
10 × 16	220~470 uF	120~220 uF	82~180 uF	56~100 uF	33~68 uF
10 × 20	330~560 uF	150~330 uF	120~220 uF	68~150 uF	47~100 uF

» Characteristics List

W.V. (V)	Capacitance (uF)	L.C. (uA, 2min)	tg δ (120Hz, 20°C)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s)		Size ΦD × L (mm)	Part Number
					105°C < T _x ≤ 125°C	T _x ≤ 105°C		
35	82	300	0.12	40	680	2000	6.3 × 8	RV820M035E080□□
	100	300	0.12	35	820	2400	6.3 × 9	RV101M035E090□□
	120	300	0.12	30	930	2700	6.3 × 11	RV121M035E110□□
	150	300	0.12	25	990	2900	6.3 × 12	RV151M035E120□□
	150	300	0.12	22	1030	3000	6.3 × 13	RV151M035E130□□
	180	300	0.12	20	1060	3100	6.3 × 15	RV181M035E150□□
	120	300	0.12	30	650	1900	8 × 8	RV121M035F080□□
	180	300	0.12	25	820	2400	8 × 11.5	RV181M035F115□□
	270	300	0.12	22	1060	3100	8 × 14	RV271M035F140□□
	330	300	0.12	20	1210	3500	8 × 16	RV331M035F160□□
	330	300	0.12	15	1310	3800	8 × 20	RV331M035F200□□
	220	300	0.12	25	820	2400	10 × 10	RV221M035G100□□
	330	300	0.12	25	930	2700	10 × 12.5	RV331M035G125□□
	390	300	0.12	22	1130	3300	10 × 14	RV391M035G140□□
	470	300	0.12	20	1440	4200	10 × 16	RV471M035G160□□
	560	300	0.12	15	1650	4800	10 × 20	RV561M035G200□□
50	10	300	0.12	40	680	2000	6.3 × 8	RV100M050E080□□
	33	300	0.12	35	820	2400	6.3 × 9	RV330M050E090□□
	47	300	0.12	30	860	2500	6.3 × 11	RV470M050E110□□
	56	300	0.12	25	890	2600	6.3 × 12	RV560M050E120□□

W.V. (V)	Capacitance (μ F)	L.C. (μ A, 2min)	tg δ (120Hz, 20°C)	ESR (m Ω , 100kHz)	Rated Ripple Current (mA, r.m.s)		Size Φ D $\times$ L (mm)	Part Number
					105°C < T _x < 125°C	T _x < 105°C		
50	68	300	0.12	22	930	2700	6.3 $\times$ 13	RV680M050E130□□
	100	300	0.12	20	990	2900	6.3 $\times$ 15	RV101M050E150□□
	56	300	0.12	30	650	1900	8 $\times$ 8	RV560M050F080□□
	68	300	0.12	25	860	2500	8 $\times$ 11.5	RV680M050F115□□
	100	300	0.12	22	990	2900	8 $\times$ 14	RV101M050F140□□
	120	300	0.12	20	1060	3100	8 $\times$ 16	RV121M050F160□□
	150	300	0.12	20	1170	3400	8 $\times$ 20	RV151M050F200□□
	100	300	0.12	25	860	2500	10 $\times$ 10	RV101M050G100□□
	120	300	0.12	25	990	2900	10 $\times$ 12.5	RV121M050G125□□
	150	300	0.12	22	1060	3100	10 $\times$ 14	RV151M050G140□□
	220	300	0.12	20	1170	3400	10 $\times$ 16	RV221M050G160□□
	330	300	0.12	20	1240	3600	10 $\times$ 20	RV331M050G200□□
63	10	300	0.12	40	680	2000	6.3 $\times$ 8	RV100M063E080□□
	22	300	0.12	35	820	2400	6.3 $\times$ 9	RV220M063E090□□
	33	300	0.12	30	860	2500	6.3 $\times$ 11	RV330M063E110□□
	47	300	0.12	25	890	2600	6.3 $\times$ 12	RV470M063E120□□
	56	300	0.12	22	930	2700	6.3 $\times$ 13	RV560M063E130□□
	68	300	0.12	20	990	2900	6.3 $\times$ 15	RV680M063E150□□
	47	300	0.12	30	650	1900	8 $\times$ 8	RV470M063F080□□
	56	300	0.12	25	860	2500	8 $\times$ 11.5	RV560M063F115□□
	68	300	0.12	22	990	2900	8 $\times$ 14	RV680M063F140□□
	100	300	0.12	20	1060	3100	8 $\times$ 16	RV101M063F160□□
	120	300	0.12	20	1170	3400	8 $\times$ 20	RV121M063F200□□
	68	300	0.12	25	860	2500	10 $\times$ 10	RV680M063G100□□
	100	300	0.12	25	990	2900	10 $\times$ 12.5	RV101M063G125□□
	120	300	0.12	22	1060	3100	10 $\times$ 14	RV121M063G140□□
	150	300	0.12	20	1170	3400	10 $\times$ 16	RV151M063G160□□
	220	300	0.12	20	1240	3600	10 $\times$ 20	RV221M063G200□□
80	22	300	0.12	45	540	1700	8 $\times$ 8	RV220M080F080□□
	33	300	0.12	40	610	1900	8 $\times$ 11.5	RV330M080F115□□
	47	300	0.12	35	705	2200	8 $\times$ 14	RV470M080F140□□
	56	300	0.12	35	770	2400	8 $\times$ 16	RV560M080F160□□
	68	300	0.12	30	930	2900	8 $\times$ 20	RV680M080F200□□
	47	300	0.12	35	830	2600	10 $\times$ 10	RV470M080G100□□
	56	300	0.12	35	770	2400	10 $\times$ 12.5	RV560M080G125□□
	82	300	0.12	35	870	2700	10 $\times$ 14	RV820M080G140□□
	100	300	0.12	30	1000	3100	10 $\times$ 16	RV101M080G160□□
100	120	300	0.12	30	1060	3300	10 $\times$ 20	RV121M080G200□□
	10	300	0.12	45	510	1600	8 $\times$ 8	RV100M100F080□□
	22	300	0.12	40	610	1900	8 $\times$ 11.5	RV220M100F115□□
	33	300	0.12	40	670	2100	8 $\times$ 14	RV330M100F140□□
	39	300	0.12	35	770	2400	8 $\times$ 16	RV390M100F160□□

W.V. (V)	Capacitance (μ F)	L.C. (μ A, 2min)	tg δ (120Hz, 20°C)	ESR (m Ω , 100kHz)	Rated Ripple Current (mA,r.m.s)		Size Φ D $\times$ L (mm)	Part Number
					105°C < T _x < 125°C	T _x < 105°C		
100	47	300	0.12	35	870	2700	8 $\times$ 20	RV470M100F200□□
	22	300	0.12	35	770	2400	10 $\times$ 10	RV220M100G100□□
	33	300	0.12	45	510	1600	10 $\times$ 12.5	RV330M100G125□□
	47	300	0.12	30	770	2400	10 $\times$ 14	RV470M100G140□□
	56	300	0.12	30	870	2700	10 $\times$ 16	RV560M100G160□□
	100	300	0.12	25	1000	3100	10 $\times$ 20	RV101M100G200□□

» Frequency Coefficient for Ripple Current

Frequency	120Hz $\leq$ freq. < 1KHz	1KHz $\leq$ freq. < 10KHz	10KHz $\leq$ freq. < 100KHz	100KHz $\leq$ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1