

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 RoHS2.0 directive

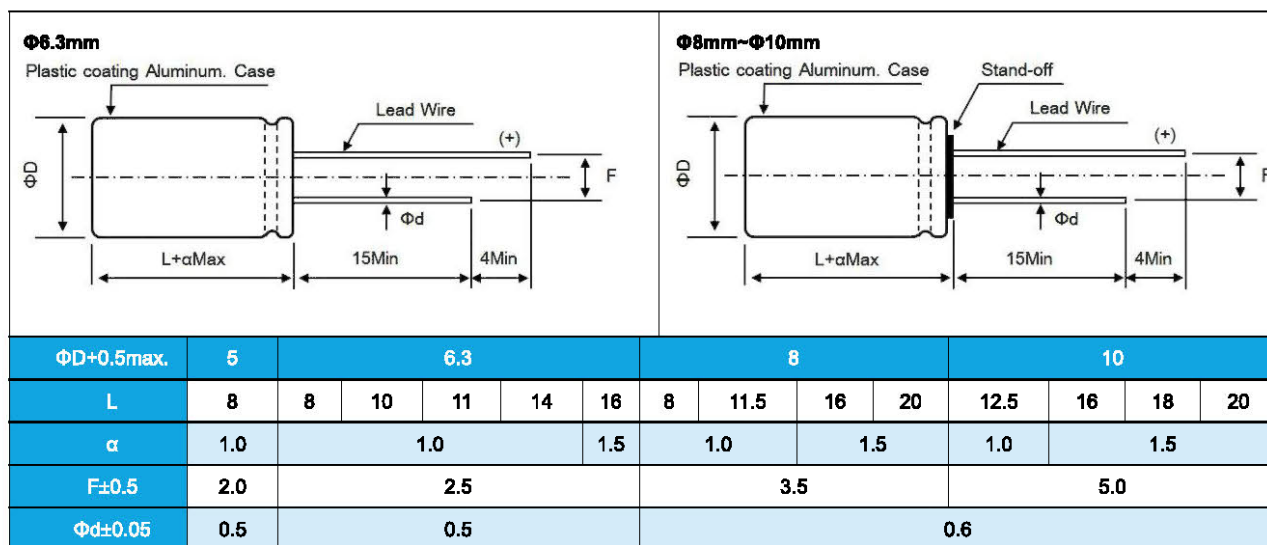
• Suitable for High reliability requirement of Electronic Equipment.

耐高温高压固态铝电容器, 具有优异的热稳定性, 可承受 125°C 环境温度, 产品满足 RoHS2.0 指令。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	10~680μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	35V ~ 100V DC	
Dissipation Factor	Not to exceed the value specified	
Leakage Current	Not to exceed the value specified (after 2 minutes)	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 125°C · 2000h · at rated voltage	Capacitance Change	Within ±20% of the value before test
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage current	Not to exceed the value specified
Moisture Resistance Stored at 60°C · RH90~95% · 1000h	Capacitance Change	Within ±20% of the value before test
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage Current	Not to exceed the value specified

◇ Dimensions (Unit:mm)



✧ Capacitance List

W.V.(S.V) SIZE	35 (41)	50 (57.5)	63 (72)	80 (92)	100 (115)
5×8	10 ~ 47μF	10 ~ 22μF	10 ~ 15μF		
6.3×8	56 ~ 82μF	27 ~ 39μF	18 ~ 27μF		
6.3×10	82 ~ 120μF	39 ~ 56μF	27 ~ 39μF		
6.3×11	100 ~ 150μF	47 ~ 68μF	33 ~ 47μF		
6.3×14	120 ~ 180μF	68 ~ 82μF	47 ~ 56μF		
6.3×16	150 ~ 220μF	68 ~ 100μF	56 ~ 68μF		
8×8	82 ~ 120μF	39 ~ 56μF	27 ~ 47μF	15 ~ 27μF	10 ~ 18μF
8×11.5	100 ~ 180μF	56 ~ 82μF	39 ~ 68μF	22 ~ 33μF	15 ~ 22μF
8×16	150 ~ 330μF	82 ~ 120μF	68 ~ 100μF	33 ~ 56μF	22 ~ 39μF
8×20	220 ~ 470μF	100 ~ 180μF	82 ~ 120μF	47 ~ 68μF	27 ~ 47μF
10×12.5	180 ~ 330μF	82 ~ 150μF	68 ~ 120μF	33 ~ 68μF	22 ~ 47μF
10×16	220 ~ 470μF	120 ~ 220μF	82 ~ 150μF	47 ~ 82μF	33 ~ 68μF
10×18	270 ~ 560μF	120 ~ 270μF	100 ~ 180μF	56 ~ 100μF	39 ~ 68μF
10×20	330 ~ 680μF	150 ~ 330μF	120 ~ 220μF	68 ~ 120μF	47 ~ 82μF

✧ Characteristics List

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100kHz)	Rated Ripple Current(mA,r.m.s)		Size ΦD×L(mm)	Part Number
					105℃<T _x ≤125℃	T _x ≤105℃		
35	22	300	0.12	35	650	1900	5×8	PRV220M035C08□□□□□□
	68	300	0.12	30	810	2350	6.3×8	PRV680M035E08□□□□□□
	100	300	0.12	22	930	2700	6.3×10	PRV101M035E10□□□□□□
	120	300	0.12	20	960	2800	6.3×11	PRV121M035E11□□□□□□
	150	300	0.12	18	1060	3100	6.3×14	PRV151M035E14□□□□□□
	220	300	0.12	18	1100	3200	6.3×16	PRV221M035E16□□□□□□
	100	300	0.12	22	1000	2900	8×8	PRV101M035F08□□□□□□
	150	300	0.12	20	1060	3100	8×11.5	PRV151M035F1A□□□□□□
	330	300	0.12	18	1240	3600	8×16	PRV331M035F16□□□□□□
	470	300	0.12	15	1340	3900	8×20	PRV471M035F20□□□□□□
	330	300	0.12	20	1130	3300	10×12.5	PRV331M035G1B□□□□□□
	470	300	0.12	18	1340	3900	10×16	PRV471M035G16□□□□□□
	560	300	0.12	18	1410	4100	10×18	PRV561M035G18□□□□□□
	680	300	0.12	15	1480	4300	10×20	PRV681M035G20□□□□□□
50	10	300	0.12	40	620	1800	5×8	PRV100M050C08□□□□□□
	33	300	0.12	30	758	2200	6.3×8	PRV330M050E08□□□□□□
	47	300	0.12	22	860	2500	6.3×10	PRV470M050E10□□□□□□
	56	300	0.12	20	890	2600	6.3×11	PRV560M050E11□□□□□□
	68	300	0.12	18	1340	3900	6.3×14	PRV680M050E13□□□□□□
	100	300	0.12	18	1030	3000	6.3×16	PRV101M050E15□□□□□□
	56	300	0.12	22	930	2700	8×8	PRV560M050F08□□□□□□
	68	300	0.12	20	1000	2900	8×11.5	PRV680M050F1A□□□□□□
	120	300	0.12	18	1170	3400	8×16	PRV121M050F16□□□□□□
	150	300	0.12	15	1270	3700	8×20	PRV151M050F20□□□□□□
	120	300	0.12	20	1060	3100	10×12.5	PRV121M050G1B□□□□□□
	220	300	0.12	18	1270	3700	10×16	PRV221M050G16□□□□□□



W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20 $^{\circ}$ C)	ESR (m Ω ,100kHz)	Rated Ripple Current (mA,r.m.s)		Size Φ D \times L(mm)	Part Number
					105 $^{\circ}$ C<T \times \leq 125 $^{\circ}$ C	T \times \leq 105 $^{\circ}$ C		
50	220	300	0.12	15	1340	3900	10 \times 18	PRV221M050G18□□□□□□
	330	300	0.12	15	1410	4100	10 \times 20	PRV331M050G20□□□□□□
63	10	100	0.12	40	620	1800	5 \times 8	PRV100M063C08□□□□□□
	22	100	0.12	30	758	2200	6.3 \times 8	PRV220M063E08□□□□□□
	33	104	0.12	22	860	2500	6.3 \times 10	PRV330M063E10□□□□□□
	47	148	0.12	20	890	2600	6.3 \times 11	PRV470M063E11□□□□□□
	56	176.4	0.12	18	1340	3900	6.3 \times 14	PRV560M063E14□□□□□□
	68	214.2	0.12	18	1030	3000	6.3 \times 16	PRV680M063E16□□□□□□
	47	148	0.12	22	930	2700	8 \times 8	PRV470M063F08□□□□□□
	56	176.4	0.12	20	1000	2900	8 \times 11.5	PRV560M063F1A□□□□□□
	82	258.3	0.12	18	1170	3400	8 \times 16	PRV820M063F16□□□□□□
	100	300	0.12	15	1270	3700	8 \times 20	PRV101M063F20□□□□□□
	100	300	0.12	20	1060	3100	10 \times 12.5	PRV101M063G1B□□□□□□
	150	300	0.12	18	1270	3700	10 \times 16	PRV151M063G16□□□□□□
	180	300	0.12	15	1340	3900	10 \times 18	PRV181M063G18□□□□□□
	220	300	0.12	15	1410	4100	10 \times 20	PRV221M063G20□□□□□□
80	22	300	0.12	25	830	2500	8 \times 8	PRV220M080F08□□□□□□
	33	300	0.12	22	900	2700	8 \times 11.5	PRV330M080F1A□□□□□□
	56	300	0.12	20	1060	3200	8 \times 16	PRV560M080F16□□□□□□
	68	300	0.12	18	1160	3500	8 \times 20	PRV680M080F20□□□□□□
	56	300	0.12	22	960	2900	10 \times 12.5	PRV560M080G1B□□□□□□
	82	300	0.12	20	1160	3500	10 \times 16	PRV820M080G16□□□□□□
	100	300	0.12	15	1230	3700	10 \times 18	PRV101M080G18□□□□□□
	120	300	0.12	15	1300	3900	10 \times 20	PRV121M080G20□□□□□□
100	10	300	0.12	25	740	2300	8 \times 8	PRV100M100F08□□□□□□
	22	300	0.12	22	805	2500	8 \times 11.5	PRV220M100F1A□□□□□□
	39	300	0.12	20	960	3000	8 \times 16	PRV390M100F16□□□□□□
	47	300	0.12	18	1060	3300	8 \times 20	PRV470M100F20□□□□□□
	33	300	0.12	22	870	2700	10 \times 12.5	PRV330M100G1B□□□□□□
	47	300	0.12	20	1060	3300	10 \times 16	PRV470M100G16□□□□□□
	56	300	0.12	30	1120	3500	10 \times 18	PRV560M100G18□□□□□□
	100	300	0.12	15	1190	3700	10 \times 20	PRV101M100G20□□□□□□

* For the last 6 digits of the part number, please refer to the part number system on page 125.

◇ Frequency Coefficient for Ripple Current

Frequency	120Hz \leq freq.<1KHz	1KHz \leq freq.<10KHz	10KHz \leq freq.<50KHz	50KHz \leq freq.<100KHz	100KHz \leq freq.<300KHz
Coefficient	0.05	0.3	0.7	0.85	1