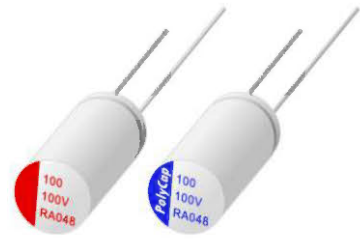


**RA series Standard**

- High voltage, Low ESR, High ripple current
- Load life of 2000 hours at 105°C
- Compliant to the RoHS2.0 directive
- Suitable for Power Supply and Industrial Device



耐高压固态铝电容器，具有高频低阻抗特性，产品满足 RoHS2.0 指令，适合用于电源电路及工业电子设备。

◇ **Specifications**

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	8.2 ~ 560µF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	35V ~ 125V 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 105°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)**

Φ6.3mm						Φ8mm~Φ10mm						
ΦD±0.5max.	6.3					8	10					
L	8	9	10	11	12	8	11.5	13	10	12.5	13	
α	1.0					1.0			1.0			
F±0.5	2.5					3.5			5.0			
Φd±0.05	0.5					0.6						

✧ Capacitance List

W.V (S.V) SIZE	35 (40)	50 (58)	63 (72)	80 (92)	100 (115)	125 (143)
6.3×8	22 ~ 120μF	10 ~ 47μF	10 ~ 33μF			
6.3×9	68 ~ 150μF	33 ~ 56μF	22 ~ 39μF			
6.3×10	82 ~ 180μF	39 ~ 68μF	27 ~ 47μF			
6.3×11	100 ~ 220μF	47 ~ 82μF	33 ~ 56μF			
6.3×12	120 ~ 220μF	56 ~ 100μF	39 ~ 68μF			
8×8	82 ~ 220μF	39 ~ 82μF	27 ~ 47μF	15 ~ 27μF	10 ~ 18μF	8.2 ~ 15μF
8×11.5	100 ~ 270μF	56 ~ 100μF	39 ~ 68μF	22 ~ 39μF	15 ~ 27μF	12 ~ 22μF
8×13	150 ~ 330μF	68 ~ 150μF	47 ~ 100μF	27 ~ 56μF	22 ~ 39μF	18 ~ 33μF
10×10	120 ~ 330μF	56 ~ 150μF	47 ~ 100μF	27 ~ 47μF	18 ~ 33μF	15 ~ 27μF
10×12.5	150 ~ 470μF	82 ~ 180μF	68 ~ 150μF	33 ~ 68μF	22 ~ 47μF	22 ~ 39μF
10×13	220 ~ 560μF	100 ~ 220μF	82 ~ 180μF	39 ~ 100μF	27 ~ 56μF	27 ~ 47μF

✧ 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
35	100	175	0.12	30	2350	6.3×8	PRA101M035E08□□□□□□
	100	175	0.12	30	2450	6.3×9	PRA101M035E09□□□□□□
	100	175	0.12	22	2700	6.3×10	PRA101M035E10□□□□□□
	220	300	0.12	22	2800	6.3×11	PRA221M035E11□□□□□□
	220	300	0.12	20	2900	6.3×12	PRA221M035E12□□□□□□
	100	175	0.12	22	2900	8×8	PRA101M035F08□□□□□□
	220	300	0.12	20	3100	8×11.5	PRA221M035F1A□□□□□□
	220	300	0.12	15	3400	8×13	PRA221M035F13□□□□□□
	220	300	0.12	22	3100	10×10	PRA221M035G10□□□□□□
	330	300	0.12	20	3300	10×12.5	PRA331M035G1B□□□□□□
50	470	300	0.12	15	3500	10×13	PRA471M035G13□□□□□□
	10	100	0.12	30	2200	6.3×8	PRA100M050E08□□□□□□
	47	117.5	0.12	30	2400	6.3×9	PRA470M050E09□□□□□□
	56	140	0.12	22	2500	6.3×10	PRA560M050E10□□□□□□
	68	170	0.12	20	2600	6.3×11	PRA680M050E11□□□□□□
	82	205	0.12	20	2700	6.3×12	PRA820M050E12□□□□□□
	82	205	0.12	22	2700	8×8	PRA820M050F08□□□□□□
	100	250	0.12	20	2900	8×11.5	PRA101M050F1A□□□□□□
	100	250	0.12	18	3200	8×13	PRA101M050F13□□□□□□
	100	250	0.12	22	2900	10×10	PRA101M050G10□□□□□□
63	150	300	0.12	20	3100	10×12.5	PRA151M050G1B□□□□□□
	220	300	0.12	18	3300	10×13	PRA221M050G13□□□□□□
	10	100	0.12	30	2200	6.3×8	PRA100M063E08□□□□□□
	22	100	0.12	30	2400	6.3×9	PRA220M063E09□□□□□□
	33	104	0.12	22	2500	6.3×10	PRA330M063E10□□□□□□
	47	148	0.12	20	2600	6.3×11	PRA470M063E11□□□□□□
	56	176.4	0.12	20	2700	6.3×12	PRA560M063E12□□□□□□
	33	104	0.12	22	2700	8×8	PRA330M063F08□□□□□□



W.V. (V)	Capacitance ( $\mu$ F)	L.C. ( $\mu$ A,2min)	tg $\delta$ (120Hz,20 $^{\circ}$ C)	ESR (m $\Omega$ ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size $\Phi$ D $\times$ L(mm)	Part Number
63	56	176.4	0.12	20	2900	8 $\times$ 11.5	PRA560M063F1A□□□□□□
	82	258.3	0.12	18	3200	8 $\times$ 13	PRA820M063F13□□□□□□
	82	258.3	0.12	22	2900	10 $\times$ 10	PRA820M063G10□□□□□□
	100	300	0.12	20	3100	10 $\times$ 12.5	PRA101M063G1B□□□□□□
	150	300	0.12	18	3300	10 $\times$ 13	PRA151M063G13□□□□□□
80	22	100	0.12	25	2500	8 $\times$ 8	PRA220M080F08□□□□□□
	33	132	0.12	22	2700	8 $\times$ 11.5	PRA330M080F08□□□□□□
	47	188	0.12	20	3000	8 $\times$ 13	PRA470M080F13□□□□□□
	47	188	0.12	25	2700	10 $\times$ 10	PRA470M080G10□□□□□□
	56	224	0.12	22	2900	10 $\times$ 12.5	PRA560M080G1B□□□□□□
	82	300	0.12	20	3100	10 $\times$ 13	PRA820M080G13□□□□□□
100	12	100	0.12	25	2300	8 $\times$ 8	PRA120M100F08□□□□□□
	22	110	0.12	22	2500	8 $\times$ 11.5	PRA220M100F1A□□□□□□
	33	165	0.12	20	2800	8 $\times$ 13	PRA330M100F13□□□□□□
	33	165	0.12	25	2500	10 $\times$ 10	PRA330M100G10□□□□□□
	47	235	0.12	22	2700	10 $\times$ 12.5	PRA470M100G1B□□□□□□
	56	280	0.12	20	2900	10 $\times$ 13	PRA560M100G13□□□□□□
	10	300	0.12	28	2100	8 $\times$ 8	PRA100M125F08□□□□□□
125	15	300	0.12	25	2200	8 $\times$ 11.5	PRA150M125F1A□□□□□□
	22	300	0.12	22	2600	8 $\times$ 13	PRA220M125F13□□□□□□
	22	300	0.12	28	2300	10 $\times$ 10	PRA220M125G10□□□□□□
	33	300	0.12	25	2500	10 $\times$ 12.5	PRA330M125G1B□□□□□□
	47	300	0.12	22	2700	10 $\times$ 13	PRA470M125G13□□□□□□

\* 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