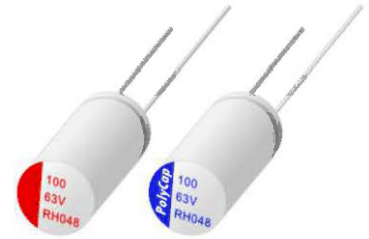


RH series High Voltage & Long Life to 5000hrs (35V~100V)



- High voltage, Low ESR, High ripple current
- Long life of 5000 hours at 105°C
- Compliant to the RoHS2.0 directive
- Suitable for LED Lighting, Power Supply & Industrial Device

长寿命耐高压固态铝电容器，5000 小时超长寿命，具有高频低阻抗特性，产品满足 RoHS2.0 指令，适用于 LED 照明设备，电源电路及工业电子设备。

✧ **Specifications**

Items	Characteristics	
Operating Temp. range	-55°C ~ +105°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 105°C · 5000h · 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 Plastic coating Aluminum. Case								Φ8mm~Φ10mm Plastic coating Aluminum. Case								
ΦD+0.5max.	6.3							8				10				
L	8	9	10	11	12	14	16	8	11.5	13	16	20	12.5	13	16	20
α	1.0						1.5	1.0		1.5		1.0		1.5		
F±0.5	2.5							3.5				5.0				
Φd±0.05	0.5							0.6				0.6				



✧ Capacitance List

W.V (S.V) SIZE	35 (41)	50 (58)	63 (72)	80 (92)	100 (115)	
6.3×8	56 ~ 82μF	10 ~ 47μF	10 ~ 27μF			
6.3×9	68 ~ 100μF	33 ~ 56μF	22 ~ 33μF			
6.3×10	82 ~ 120μF	39 ~ 68μF	27 ~ 39μF			
6.3×11	100 ~ 150μF	47 ~ 82μF	33 ~ 47μF			
6.3×12	120 ~ 150μF	56 ~ 100μF	39 ~ 56μF			
6.3×14	120 ~ 180μF	68 ~ 100μF	47 ~ 56μF			
6.3×16	150 ~ 220μF	82 ~ 120μF	56 ~ 68μF			
8×8	68 ~ 120μF	39 ~ 68μF	27 ~ 47μF	15 ~ 27μF	10 ~ 18μF	
8×11.5	100 ~ 180μF	56 ~ 100μF	39 ~ 56μF	22 ~ 39μF	15 ~ 22μF	
8×13	150 ~ 220μF	82 ~ 150μF	56 ~ 82μF	27 ~ 56μF	22 ~ 39μF	
8×16	150 ~ 330μF	82 ~ 150μF	56 ~ 100μF	33 ~ 56μF	22 ~ 39μF	
8×20	220 ~ 470μF	100 ~ 220μF	82 ~ 120μF	47 ~ 82μF	33 ~ 56μF	
10×12.5	180 ~ 330μF	82 ~ 180μF	68 ~ 120μF	33 ~ 68μF	22 ~ 47μF	
10×13	220 ~ 390μF	120 ~ 220μF	82 ~ 150μF	47 ~ 100μF	33 ~ 56μF	
10×16	220 ~ 470μF	120 ~ 270μF	82 ~ 150μF	47 ~ 100μF	33 ~ 68μF	
10×20	330 ~ 680μF	150 ~ 390μF	120 ~ 220μF	68 ~ 150μF	47 ~ 100μF	

✧ 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	56	100	0.12	30	2350	6.3×8	PRH560M035E08□□□□□□
	68	119	0.12	30	2450	6.3×9	PRH680M035E09□□□□□□
	100	175	0.12	22	2700	6.3×10	PRH101M035E10□□□□□□
	120	210	0.12	20	2800	6.3×11	PRH121M035E11□□□□□□
	150	262.5	0.12	20	2900	6.3×12	PRH151M035E12□□□□□□
	180	300	0.12	18	3100	6.3×14	PRH181M035E14□□□□□□
	220	300	0.12	18	3200	6.3×16	PRH221M035E16□□□□□□
	100	175	0.12	22	2900	8×8	PRH101M035F08□□□□□□
	150	262.5	0.12	20	3100	8×11.5	PRH151M035F1A□□□□□□
	220	300	0.12	18	3400	8×13	PRH221M035F13□□□□□□
	330	300	0.12	18	3600	8×16	PRH331M035F16□□□□□□
	470	300	0.12	15	3900	8×20	PRH471M035F20□□□□□□
	220	300	0.12	20	3300	10×12.5	PRH221M035G1B□□□□□□
	330	300	0.12	18	3500	10×13	PRH331M035G13□□□□□□
	470	300	0.12	18	3900	10×16	PRH471M035G16□□□□□□
	680	300	0.12	15	4300	10×20	PRH681M035G20□□□□□□
50	10	100	0.12	30	2200	6.3×8	PRH100M050E08□□□□□□
	47	117.5	0.12	30	2400	6.3×9	PRH470M050E09□□□□□□
	56	140	0.12	22	2500	6.3×10	PRH560M050E10□□□□□□
	68	170	0.12	20	2600	6.3×11	PRH680M050E11□□□□□□
	82	205	0.12	20	2700	6.3×12	PRH820M050E12□□□□□□
	100	250	0.12	18	3900	6.3×14	PRH101M050E14□□□□□□
	120	300	0.12	18	3000	6.3×16	PRH121M050E16□□□□□□
	56	140	0.12	22	2700	8×8	PRH560M050F08□□□□□□

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
50	100	250	0.12	20	2900	8 \times 11.5	PRH101M050F1A□□□□□□
	120	300	0.12	18	3200	8 \times 13	PRH121M050F13□□□□□□
	150	300	0.12	18	3400	8 \times 16	PRH151M050F16□□□□□□
	220	300	0.12	15	3700	8 \times 20	PRH221M050F20□□□□□□
	100	250	0.12	20	3100	10 \times 12.5	PRH101M050G1B□□□□□□
	180	300	0.12	18	3300	10 \times 13	PRH181M050G13□□□□□□
	220	300	0.12	18	3700	10 \times 16	PRH221M050G16□□□□□□
	330	300	0.12	15	4100	10 \times 20	PRH331M050G20□□□□□□
63	10	100	0.12	30	2200	6.3 \times 8	PRH100M063E08□□□□□□
	22	100	0.12	30	2400	6.3 \times 9	PRH220M063E09□□□□□□
	33	104	0.12	22	2500	6.3 \times 10	PRH330M063E10□□□□□□
	47	148	0.12	20	2600	6.3 \times 11	PRH470M063E11□□□□□□
	56	176.4	0.12	20	2700	6.3 \times 12	PRH560M063E12□□□□□□
	56	176.4	0.12	18	3900	6.3 \times 14	PRH560M063E14□□□□□□
	68	214.2	0.12	18	3000	6.3 \times 16	PRH680M063E16□□□□□□
	33	104	0.12	22	2700	8 \times 8	PRH330M063F08□□□□□□
	47	148	0.12	20	2900	8 \times 11.5	PRH470M063F1A□□□□□□
	82	258.3	0.12	18	3200	8 \times 13	PRH820M063F13□□□□□□
	100	300	0.12	18	3400	8 \times 16	PRH101M063F16□□□□□□
	120	300	0.12	15	3700	8 \times 20	PRH121M063F20□□□□□□
	100	300	0.12	20	3100	10 \times 12.5	PRH101M063G1B□□□□□□
	120	300	0.12	18	3300	10 \times 13	PRH121M063G13□□□□□□
	150	300	0.12	18	3700	10 \times 16	PRH151M063G16□□□□□□
	220	300	0.12	15	4100	10 \times 20	PRH221M063G20□□□□□□
80	22	100	0.12	25	2500	8 \times 8	PRH220M080F08□□□□□□
	33	132	0.12	22	2700	8 \times 11.5	PRH330M080F08□□□□□□
	47	188	0.12	20	3000	8 \times 13	PRH470M080F13□□□□□□
	56	224	0.12	20	3200	8 \times 16	PRH560M080F16□□□□□□
	82	300	0.12	18	3500	8 \times 20	PRH820M080F20□□□□□□
	47	188	0.12	22	2900	10 \times 12.5	PRH470M080G1B□□□□□□
	82	300	0.12	20	3100	10 \times 13	PRH820M080G13□□□□□□
	100	300	0.12	20	3500	10 \times 16	PRH101M080G16□□□□□□
	120	300	0.12	15	3900	10 \times 20	PRH121M080G20□□□□□□
100	12	100	0.12	25	2300	8 \times 8	PRH120M100F08□□□□□□
	22	110	0.12	22	2500	8 \times 11.5	PRH220M100F1A□□□□□□
	33	165	0.12	20	2800	8 \times 13	PRH330M100F13□□□□□□
	39	195	0.12	20	3000	8 \times 16	PRH390M100F16□□□□□□
	47	235	0.12	18	3300	8 \times 20	PRH470M100F20□□□□□□
	47	235	0.12	22	2700	10 \times 12.5	PRH470M100G1B□□□□□□
	56	280	0.12	20	2900	10 \times 13	PRH560M100G13□□□□□□
	68	300	0.12	20	3300	10 \times 16	PRH680M100G16□□□□□□
	100	300	0.12	15	3700	10 \times 20	PRH101M100G20□□□□□□

* 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