

RK series Long Life to 23000hrs

- Long life of 23000 hours at 105°C
 - Compliant to the RoHS2.0 directive
- 具有 23000 小时(105°C) 超长寿命, 产品满足 RoHS2.0 指令。



◇ Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	100 ~ 1000μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	2.5V ~ 16V 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 · 23000h · 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 85°C · RH 85% · 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)

	Φ5mm~Φ6.3mm		Φ8mm~Φ10mm	
ΦD+0.5max.	5	6.3	8	10
L	8	5 8	8 11.5	12.5
α	1.0	1.0	1.0	1.0
F±0.5	2.0	2.5	3.5	5.0
Φd±0.05	0.5	0.5	0.6	0.6



◇ Capacitance List

SIZE \ W.V (S.V)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	16 (18)		
5×8	270 ~ 470μF	270 ~ 390μF	220 ~ 330μF			
6.3×5	330 ~ 560μF	270 ~ 390μF	220 ~ 330μF	100 ~ 150μF		
6.3×8	560 ~ 1000μF	470 ~ 680μF	470 ~ 680μF	150 ~ 270μF		
8×8				220 ~ 390μF		
8×11.5				330 ~ 560μF		
10×12.5				560 ~ 1000μF		

◇ 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
2.5	390	100	0.08	8	4300	5×8	PRK391M2R5C08□□□□□□
	560	140	0.08	12	3900	6.3×5	PRK561M2R5E05□□□□□□
	820	205	0.08	6	5500	6.3×8	PRK821M2R5E08□□□□□□
4	330	132	0.08	8	4000	5×8	PRK331M004C08□□□□□□
	330	132	0.08	12	3700	6.3×5	PRK331M004E05□□□□□□
	560	224	0.08	6	5300	6.3×8	PRK561M004E08□□□□□□
6.3	220	138.6	0.08	9	3700	5×8	PRK221M6R3C08□□□□□□
	330	207.9	0.08	15	3600	6.3×5	PRK331M6R3E05□□□□□□
	560	352.8	0.08	8	4600	6.3×8	PRK561M6R3E08□□□□□□
16	100	704	0.10	25	2500	6.3×5	PRK221M016E05□□□□□□
	270	864	0.10	15	3800	6.3×8	PRK271M016E08□□□□□□
	330	1056	0.10	12	4000	8×8	PRK331M016F08□□□□□□
	470	1054	0.10	12	4400	8×11.5	PRK471M016F1A□□□□□□
	680	2176	0.10	10	5400	10×12.5	PRK681M016G1B□□□□□□

* 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≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<50KHz	50KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.3	0.7	0.85	1