

RK series

Long Life to 20000hrs

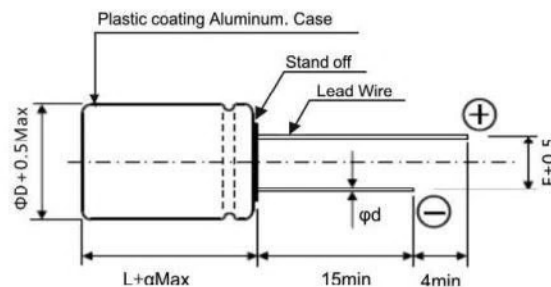
- Long life of 20000 hours at 105°C
- Compliant to the RoHS directive (2011/65/EU)

具有20000小时(105°C) 超长寿命, 产品满足RoHS指令(2011/65/EU)。

» Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	180 ~ 820 uF	
Capacitance Tolerance	M: ± 20%	
Rated Voltage Range	2.5V ~ 16V DC	
Dissipation Factor	Not to exceed the value specified	
(at 120Hz, 20°C)	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
	Leakage current	Not to exceed the value specified
Endurance 105°C, 20000h, at rated voltage	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

» Dimensions



Unit: mm

φ D × L	ΦD +0.5max.	α	F ± 0.5	Φ d ± 0.05
5 × 8	5.0	1.0	2.0	0.5
6.3 × 8	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
10 × 10	10.0	1.0	5.0	0.6
10 × 12.5	10.0	1.0	5.0	0.6

» Capacitance List

W.V (S.V) SIZE	2.5 (2.8)	4 (4.6)	6.3 (7.2)	16 (18.4)
5 × 8	220 ~ 470 uF	220 ~ 330 uF	180 ~ 270 uF	
6.3 × 8	560 ~ 820 uF	470 ~ 680 uF	330 ~ 560 uF	150 ~ 220 uF
8 × 8				220 ~ 390 uF
8 × 11.5				270 ~ 470 uF
10 × 12.5				470 ~ 820 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 Φ D × L (mm)	Part Number
2.5	220	300	0.08	8	4300	5 × 8	RK221M2R5C080□□
	330	300	0.08	8	4300	5 × 8	RK331M2R5C080□□
	560	300	0.08	6	5500	6.3 × 8	RK561M2R5E080□□
	820	410	0.08	6	5500	6.3 × 8	RK821M2R5E080□□
4	220	300	0.08	8	4000	5 × 8	RK221M004C080□□
	330	300	0.08	8	4000	5 × 8	RK331M004C080□□
	470	376	0.08	6	5300	6.3 × 8	RK471M004E080□□
	560	448	0.08	6	5300	6.3 × 8	RK561M004E080□□
6.3	220	300	0.08	10	3700	5 × 8	RK221M6R3C080□□
	270	340.2	0.08	10	3700	5 × 8	RK271M6R3C080□□
	330	415.8	0.08	8	4600	6.3 × 8	RK331M6R3E080□□
	560	705.6	0.08	8	4600	6.3 × 8	RK561M6R3E080□□
16	220	704	0.10	15	3800	6.3 × 8	RK221M016E080□□
	270	864	0.10	15	3800	6.3 × 8	RK271M016E080□□
	330	1056	0.10	12	4000	8 × 8	RK331M016F080□□
	470	1054	0.10	11	4400	8 × 11.5	RK471M016F115□□
	680	2176	0.10	10	5500	10 × 12.5	RK681M016G125□□

» Frequency Coefficient for Ripple Current

Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1