

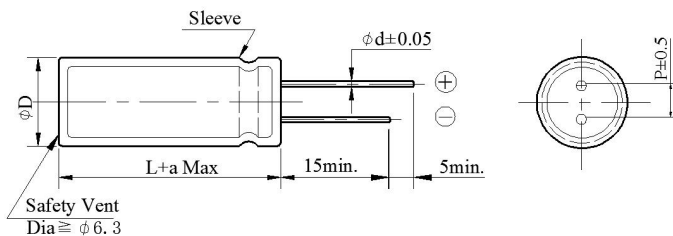
RK Series

- Miniaturized, Low impedance.
- Suitable for use in high ripple current capability.
- Load life 10,000~12,000 hours at 105°C.

SPECIFICATIONS

Item	Performance Characteristics									
Category Temperature Range	-40~ +105℃									
Working Voltage Range	10~ 100Vdc									
Capacitance Range	22~2700μF									
Capacitance Tolerance	±20% (at 20℃ and 120Hz)									
Dissipation Factor (tan δ) (at 20℃, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	
	tan δ (Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	
	The above values should be increased by 0.02 for every additional 1000μF									
Leakage Current	I≤0.01CV or 3μA whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 2 minutes.									
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(at120Hz)
	Z(-25℃)/Z(+25℃)	4	3	3	3	3	3	3	3	
	Z(-40℃)/Z(+25℃)	8	6	4	4	4	4	4	4	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 10,000~12,000 hours at 105℃.									
	Capacitance change		≒±25% of the initial value				Size		Life time (hours)	
	Dissipation factor(tan δ)		≒ 300% of the specified value				6.3Φ		1,0000	
	Leakage current		≒ specified value				≒ 8 Φ		12,000	
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20℃ after the rated voltage applied for 1,000 hours at 105℃without voltage applied.									
	Capacitance change		≒±25% of the initial value							
	Dissipation factor(tan δ)		≒ 300% of the specified value							
	Leakage current		≒ 200% of the specified value							
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4									

DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5/13	16	18
ΦD	ΦD ± 0.5 Max						
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	< 20 L ± 1.5Max ≥ 20 L ± 2.0Max						

PART NUMBER SYSTEM(Example :16V 2200μF)

E	R	K	0	1	6	M	2	2	2	G	2	0	L	O	5	0	A	A	
																			Special Request
																			Lead size
																			Lead type
																			Height code (L: 20mm)
																			Diameter code (G: Φ10)
																			Capacitance code (2200 μF)
																			Capacitance tolerance code (M: ±20%)
																			Voltage code (16V)
																			Series code (RK)
																			Category code

RK Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 100KHz.

WV(V)	Nominal capacitance (uF)	Case size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)	WV(V)	Nominal capacitance (uF)	Case size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)
10	100	5x11	0.600	240	16	100	6.3x11	0.540	280
	220	6.3x11	0.320	440		220	6.3x11	0.340	400
	330	8x12	0.220	640		220	8x12	0.300	480
						680	10x12	0.100	970
						2200	13x20	0.050	2360
25	10	5x11	0.750	100	35	47	5x11	0.700	180
	47	5x11	0.700	200		100	6.3x11	0.600	300
	100	6.3x11	0.600	330		1000	13x20	0.060	1830
	150	6.3*12	0.350	430					
	220	6.3*12	0.240	510					
50	2.2	5x11	2.500	40	63	10	5x11	2.100	110
	3.3	5x11	2.400	50		22	6.3x11	1.200	170
	4.7	5x11	2.300	60		33	6.3x11	1.000	170
		6.3x11	1.800	80		47	8x12	0.600	250
	6.8	5x11	2.200	70		220	10x16	0.150	900
	10	5x11	2.000	80		330	13x20	0.120	1430
		6.3x11	1.500	100		470	12.5x25	0.100	1780
	22	5x11	1.800	90			13x20	0.110	1650
		6.3x11	1.200	150		680	13x25	0.080	2200
	47	6.3x11	1.000	200		820	16x25	0.050	2700
	100	8x12	0.450	330		1500	16x35	0.048	3500
	680	13x20	0.100	2000					
	1500	13x35	0.050	3300					
80	270	12.5x20	0.130	1200	100	3.3	5x11	2.800	80
	470	16x25	0.105	1300		6.8	5x11	2.200	100
		18x20	0.105	1300			6.3x11	2.000	150
	1200	18x30	0.050	2500		22	8x12	0.480	230
						150	10x25	0.300	900
						390	16x25	0.100	1370

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Cap(uF)	Frequency (Hz)			
		120	1K	10K	100K
10~ 100	6.8 ~ 68	0.30	0.55	0.80	1.00
	82 ~ 220	0.40	0.60	0.85	1.00
	330 ~ 2700	0.50	0.65	0.90	1.00