

RGK Series, Radial Aluminum Electrolytic Capacitors

©-55°C~105°C, 2000~5000 hours ,Load life.

©Enabled high ripple current by a reduction of impedance at high frequency range.

©Lowest impedance for personal computer and storage equipment.

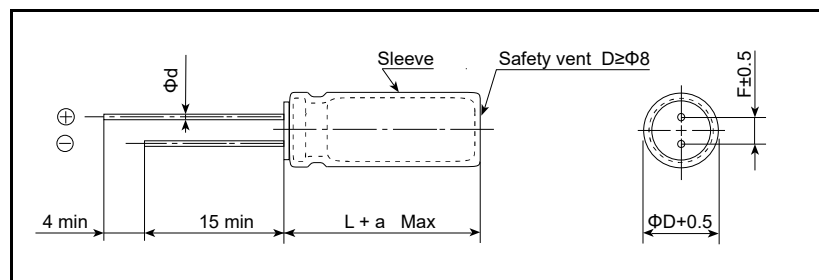
How to order

RGK	338	M	016	01250250	050	B	000	-	Additional characters maybe added for special requirements
Type	Capacitance code	Tolerance	Rated Voltage	Size Code	Pitch	Package	Lead Length		
RGK RGF RGR RGL RB2 RM2	pF Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) 107 = 100uF 108 = 1000uF 338 =3300uF	M: -20%~+20%	Code 016: 16VDC For DC Voltage 006: 6.3VDC 016: 16VDC 035: 35VDC 200: 200VDC 450: 450VDC	Code 01250250: Size 12.5*25mm 00630110: Size 6.3*11mm 01250250: Size 12.5*25mm 01600250: Size 16*25mm	Axial: 000 2.0: 020 2.5: 025 3.5: 035 5.0: 050 7.5: 075	B: BULK T: AMMO TAPED	Standard: 000 Cut Lead Length: 3.0mm: 030 3.5mm: 035 4.0mm: 040 4.5mm: 045 5.0mm: 050		

Specifications

Item	Characteristics					
Operating temperature range	-55°C~+105°C					
Rated voltage range	160-450V.DC					
Nominal capacitance range	4.7-6800uF					
Capacitance tolerance	±20% (120Hz·20°C)					
leakage current(20°C)	I≤0.01CV or 3μA(whichever is greater) after 2 minute I: Leakage current C: Normanl capacitance V: Rated voltage					
Dissipation factor (120Hz·20°C)	Rated voltage (V)	160	200	250	400	450
	tgδ (MAX)	0.15	0.15	0.15	0.2	0.2
Surge Voltage	WV	160	200	250	400	450
Low temperature characteristics (Impedance ratio max. at 120Hz)	Z-25°C / Z+20°C	3	3	3	3	4
	Z-55°C / Z+20°C	6	6	6	6	7
Load Life	Durat on:					
	ΦD	5~6.3	8	10	13~	
	Load life	2000h	3000h	4000h	5000h	
	After applying rated voltage at +105°C and then resumed 16 hours:					
Capacitance change	Within ±20% of the initial measured value					
tgδ	≤200% of the initial specified value					
Leakage current	≤initial specified value					
Shelf Life	After storage for 1000 hours at 105°C then resumed 16 hours:					
	Capacitance change	Within ±20% of the initial measured value				
	tgδ	≤200% of the initial specified value				
	Leakage current	≤initial specified value				

Diagram of Dimensions(mm)

	φD	8	10	13	16	18
	F±0.5	3.5	5.0	5.0	7.5	7.5
	φd±0.05	0.5	0.6	0.6	0.8	0.8
	α	(L<20) 1.5 (L≥20) 2.0				

Freuency coefficient

Freuency coefficient	120Hz	1KHz	10KHz-50KHz	100KHz
	1	1.3	1.40	1.44

Multiplier for Ripple Current vs. Temperature:

Temperature °C	~55	70	85	105
Factor	2.23	2.00	1.75	1.00

Standard Ratings

Voltage (Code)		6.3V		10V		16V	
Cap. (µF)	Code	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)
100	107	5*11	220	6.3*11	405		
120	127					6.3*11	405
220	227	6.3*11	405	8*12	760	8*12	760
330	337	6.3*11	405	8*12	760	8*12	760
470	477	8*12	760	8*12	820	10*13	1030
				8*15	820		
560	567	8*12	760				
680	687			8*12	1250	10*13	1020
820	827	8*16	995	10*16	1430		
1000	108	10*13	1030	10*20	1820	10*16	1630
1200	128	10*16	1430	10*20	1950	10*20	1900
1500	158	10*20	1820	13*20	2150	10*20	1950
2200	228	10*25	1980	13*25	2770	13*20	2100
2700	278			13*30	2850	13*25	2850
3300	338	13*20	2080	13*35	3150		
3900	398	13*25	2470	16*25	3018		
4700	478	13*30	2850				
5600	568	16*20	3150				
6800	688	16*25	3250				

Voltage (Code)		25V		35V		50V	
Cap. (µF)	Code	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)	Size	ripple current (mA.r.m.s/ 105°C 100KHZ)
47	476			5*11	200	6.3*11	320
56	566			6.3*11	350		
68	686						
82	826						
100	107	6.3*11	410	6.3*11	400	8*12	610
120	127						
220	227	8*12	760	10*13	1050	10*16	1136
270	277						
330	337	10*13	1030	10*13	1120	10*20	1500
470	477	10*16	1430	13*16	1500	13*20	1900
560	567						
680	687	10*16	1550	13*20	2150		
820	827	10*20	1890			16*20	2100
1000	108	13*20	2360	13*20	2100	16*25	2850
1200	128			13*25	2300		
1500	158	13*20	2400	16*25	2700		
2200	228	13*25	2450				
2700	278	16*25	3000				
3300	338						
3900	398						
4700	478	16*30	3260				

Standard Ratings

Voltage (Code)		63V		100V		160	
Cap. (μF)	Code	Size	ripple current (mA.r.m.s/105°C 100KHZ)	Size	ripple current (mA.r.m.s/105°C 100KHZ)	Size	ripple current (mA.r.m.s/105°C 100KHZ)
4.7	475			5*11	105	6.3*11	45
5.6	565			5*11	116		
6.8	685			5*11	120	8*12	50
10	106			6.3*11	150	8*12	65
22	226	6.3*11	250	8*12	370	10*12	110
33	336	6.3*11	270	8*12	370	10*16	150
47	476	8*12	480	10*13	500	10*20	190
56	566			10*13	550	10*25	235
68	686	8*12	550	10*16	630	13*20	260
82	826			10*16	700	13*25	335
100	107	10*13	720	10*20	970	13*25	350
120						16*25	380
150						16*30	400
180						16*32	480
220	227	10*25	1315	13*20	1500	16*36	570
270	277	13*20	1560				
330	337	10*30	1750	16*25	2150	18*40	750
470	477	16*20	2300	16*30	2350	22*40	900
680	687						
820	827						
1000	108						
1200	128	16*30	2850				
1500	158						

Voltage (Code)		200		250		400		450	
Cap. (μF)	Code	Size	ripple current (mA.r.m.s/105°C 100KHZ)	Size	ripple current (mA.r.m.s/105°C 100KHZ)	Size	ripple current (mA.r.m.s/105°C 100KHZ)	Size	ripple current (mA.r.m.s/105°C 100KHZ)
4.7	475	8*12	40	8*12	40	10*16	42	10*16	42
6.8	685	8*12	53	8*12	50	10*16	58	10*25	58
10	106	10*12	70	10*17	70	10*20	78	13*20	80
22	226	10*16	110	10*20	120	13*25	140	16*20	150
33	336	10*16	160	13*20	170	16*20	210	16*25	230
47	476	13*20	200	13*25	225	16*25	330	16*30	300
56	566	13*25	240	16*20	270	16*25	360	16*35	370
68	686	13*25	270	16*20	295	16*30	400	18*30	410
82	826	16*20	350	16*25	310	18*30	450	18*35	460
100	107	16*25	360	16*30	340	18*35	490	18*40	500
120	127	16*30	400	16*35	410	18*40	530	22*35	540
150	157	16*35	440	16*40	460	22*35	560		
180	187	16*40	510	18*40	525				
220	227	18*35	575	18*36	600				
330	337	20*40	755						
470	477								

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L (mm)