

ELNA**Miniature Aluminum Electrolytic Capacitors RKF series**

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Vibration resistance (40G,10 to 2000Hz, X,Y,Z = per 2hours).
- For Automotive application (ABS and electric power steering etc.)
- Guaranteed 3000 hours at 135°C.
(63V to 80V : Guaranteed 2000 hours)
- Environmental : GREEN CAP™ , RoHS compliance.

High vibration
resistance

RKF



RKC



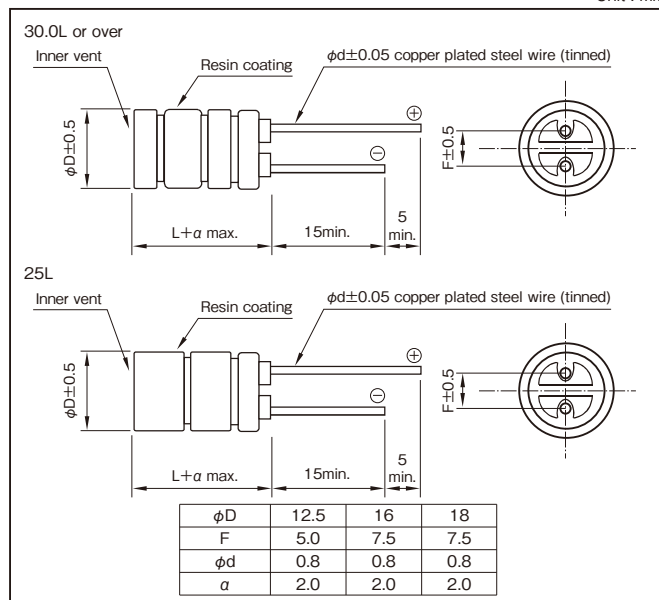
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Specifications

Item	Performance						
Category temperature range (°C)	-40 to +135						
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)						
Leakage current (μA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20°C)						
Tangent of loss angle (tanδ)	Rated voltage (V)		25	35	50	63	80
	tanδ (max.)		0.14	0.12	0.10	0.10	0.08
	0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz)						
Characteristics at high and low temperature	Rated voltage (V)		25	35	50	63	80
	Impedance ratio (max.)	Z-40°C/Z+20°C	3	3	3	3	3
(120Hz)							
Endurance (135°C or 125°C) (Applied ripple current)	Test time		3000 hours (63V to 80V : 2000 hours)				
	Leakage current		The initial specified value or less				
	Percentage of capacitance change		Within ±30% of initial value				
	Tangent of the loss angle		300% or less of the initial specified value				
Shelf life (135°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1						
Vibration	Vibration test condition						
	Frequency range		10 to 2000Hz				
	Amplitude or Acceleration		1.5 mm peak to peak or 40G (392m/s²), whichever is the less severe				
	Sweep rate		0.5 octave/min.				
	Vibration axis and duration		X, Y, Z per 2 hours, total 6 hours				
	Fixation		Capacitor mounted by its body which is rigidly clamped to the work surface.				
	Specification after test						
	Leakage current		The initial specified value or less				
	Percentage of capacitance change		Within ±30% of initial value				
	Tangent of the loss angle		300% or less of the initial specified value				
Applicable standards	JIS C5101 - 1, - 4 (IEC 60384 - 1, - 4)						

Outline Drawing

Unit : mm

**Coefficient of Frequency for Rated Ripple Current**

Rated capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
290	0.65	0.85	1.00	1
390 to 1000	0.75	0.90	1.00	1
1100 to 8200	0.85	0.95	1.00	1

Product code system : 35V3600μF
(*For automotive: powertrain, safety)

RA*	RKF	362	M	1G	K31	300	T
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Lead-forming and packing code	Additional code

- For details, refer to the various "Product Code System" pages.
- Lead-forming and packing code on this page are for lead long and standard packing products.

For standard packing, please refer to the "PACKING" page.

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

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Standard Ratings

Rated voltage (V)	Rated capacitance (μF)	Case φ D × L (mm)	Size code	ESR (Ω max. / 100kHz)		Rated ripple current (mA rms / 100kHz)	
				20°C	-40°C	135°C	125°C
25 (1T)	1800	12.5 × 25	G25	0.033	0.30	2010	3480
	2200	12.5 × 30	G30	0.028	0.24	2900	4490
	2700	12.5 × 35	G35	0.025	0.21	3190	5140
	3300	12.5 × 40	G40	0.024	0.19	3470	5810
	4700	16 × 31.5	J31	0.023	0.18	3400	5480
	5400	16 × 35.5	J35	0.020	0.14	3630	6070
	6200	16 × 40	J40	0.019	0.12	3930	6810
	6200	18 × 31.5	K31	0.022	0.16	3470	5600
	7800	18 × 35.5	K35	0.019	0.12	3750	6280
	8200	18 × 40	K40	0.018	0.10	4080	7070
35 (1G)	1100	12.5 × 25	G25	0.033	0.30	2010	3480
	1500	12.5 × 30	G30	0.028	0.24	2900	4490
	1800	12.5 × 35	G35	0.025	0.21	3190	5140
	2000	12.5 × 40	G40	0.024	0.19	3470	5810
	2700	16 × 31.5	J31	0.023	0.18	3400	5480
	3100	16 × 35.5	J35	0.020	0.14	3630	6070
	3600	16 × 40	J40	0.019	0.12	3930	6810
	3600	18 × 31.5	K31	0.022	0.16	3470	5600
	4700	18 × 35.5	K35	0.019	0.12	3750	6280
	5400	18 × 40	K40	0.018	0.10	4080	7070
50 (1U)	560	12.5 × 25	G25	0.079	0.39	2260	3350
	750	12.5 × 30	G30	0.065	0.30	2520	4220
	900	12.5 × 35	G35	0.057	0.25	2780	4810
	1000	12.5 × 40	G40	0.050	0.22	3020	5240
	1300	16 × 31.5	J31	0.048	0.20	2960	5130
	1600	16 × 35.5	J35	0.039	0.15	3160	5480
	1900	16 × 40	J40	0.034	0.14	3420	5930
	2000	18 × 31.5	K31	0.038	0.15	3020	5240
	2400	18 × 35.5	K35	0.033	0.12	3390	5870
	2600	18 × 40	K40	0.031	0.11	3700	6420

Rated voltage (V)	Rated capacitance (μF)	Case φ D × L (mm)	Size code	ESR (Ω max. / 100kHz)		Rated ripple current (mA rms / 100kHz)	
				20°C	-40°C	135°C	125°C
63 (4E)	390	12.5 × 25	G25	0.076	0.39	2050	2520
	560	12.5 × 30	G30	0.061	0.30	2630	3110
	650	12.5 × 35	G35	0.051	0.25	2970	3760
	750	12.5 × 40	G40	0.045	0.22	3260	4610
	1000	16 × 31.5	J31	0.049	0.20	3050	3860
	1300	16 × 35.5	J35	0.039	0.15	3420	4590
	1300	18 × 31.5	K31	0.041	0.15	3220	4080
	1500	16 × 40	J40	0.036	0.14	3670	5190
	1800	18 × 35.5	K35	0.032	0.12	3690	5220
	2000	18 × 40	K40	0.031	0.11	3820	5660
80 (1R)	290	12.5 × 25	G25	0.076	0.39	2050	2520
	420	12.5 × 30	G30	0.061	0.30	2630	3110
	490	12.5 × 35	G35	0.051	0.25	2970	3760
	570	12.5 × 40	G40	0.045	0.22	3260	4610
	750	16 × 31.5	J31	0.049	0.20	3050	3860
	820	16 × 35.5	J35	0.039	0.15	3420	4590
	820	18 × 31.5	K31	0.041	0.15	3220	4080
	950	16 × 40	J40	0.036	0.14	3670	5190
	1200	18 × 35.5	K35	0.032	0.12	3690	5220
	1300	18 × 40	K40	0.031	0.11	3820	5660