

ELNA**Miniature Aluminum Electrolytic Capacitors RKE 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 5000 hours at 125°C.
- Environmental : GREEN CAP™, RoHS compliance.

High vibration
resistance

RKE



RKD



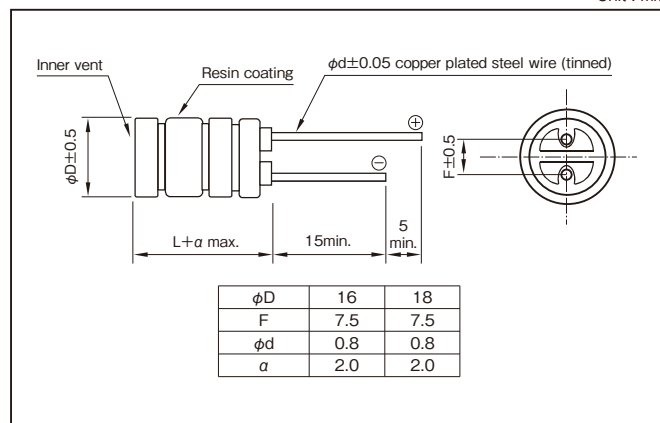
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Specifications

Item	Performance													
Category temperature range (°C)	-40 to +125													
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)	<table><tr><td colspan="2">Rated voltage (V)</td><td>25</td><td>35</td><td>50</td></tr><tr><td colspan="2">tanδ (max.)</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>				Rated voltage (V)		25	35	50	tanδ (max.)		0.14	0.12	0.10
	Rated voltage (V)		25	35	50									
	tanδ (max.)		0.14	0.12	0.10									
0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz)														
Characteristics at high and low temperature	<table><tr><td colspan="2">Rated voltage (V)</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Impedance ratio (max.)</td><td>Z-40°C/Z+20°C</td><td>3</td><td>3</td><td>3</td></tr></table>				Rated voltage (V)		25	35	50	Impedance ratio (max.)	Z-40°C/Z+20°C	3	3	3
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	Impedance ratio (max.)	Z-40°C/Z+20°C	3	3	3									
(120Hz)														
Endurance (125°C) (Applied ripple current)	Test time		5000 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 (125°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
1200 to 6800	0.85	0.95	1.00	1

Product code system : 35V2700μF
 (*For automotive: powertrain, safety)

RA*	RKE	272	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) Item Rated capacitance (μF)	25 (1T)					35 (1G)					50 (1U)				
	Case φ D × L (mm)	Size code	ESR (Ω max.)		Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)		Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)		Rated ripple current (mA rms)
			20°C	-40°C				20°C	-40°C				20°C	-40°C	
1200	—	—	—	—	—	—	—	—	—	—	16×31.5	J31	0.048	0.20	2940
1500	—	—	—	—	—	16×31.5	J31	0.024	0.14	3160	16×35.5	J35	0.039	0.16	3300
2200	—	—	—	—	—	16×35.5	J35	0.023	0.13	3590	18×35.5	K35	0.033	0.15	3520
2700	16×31.5	J31	0.024	0.14	3160	18×31.5	K31	0.020	0.11	3410	—	—	—	—	—
3300	16×35.5	J35	0.023	0.13	3590	18×35.5	K35	0.019	0.10	3840	—	—	—	—	—
4700	18×31.5	K31	0.020	0.11	3410	18×40	K40	0.017	0.094	4250	—	—	—	—	—
5600	18×35.5	K35	0.019	0.10	3840	—	—	—	—	—	—	—	—	—	—
6800	18×40	K40	0.017	0.094	4250	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 125°C , 100kHz ; ESR : 100kHz