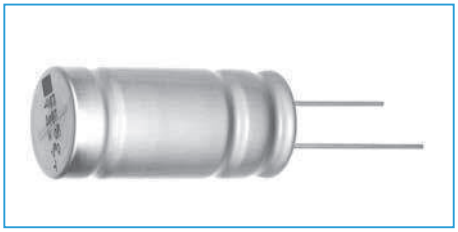
125˚C Use, Miniature, Low ESR, High Vibration Resistance Capacitors

GREEN CAP | High Vibration Resistance | Low ESR | 125˚C 5000hours | Anti-cleaning solvent

- 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

High vibration resistance

RKE ⇦ RKD



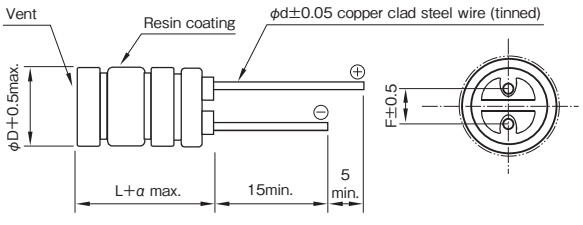
Marking color : Black print

Specifications

Item	Performance
Category temperature range (℃)	−40 to +125
Tolerance at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20℃)
Tangent of loss angle (tanδ)	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℃,120Hz)
Characteristics at high and low temperature	Rated voltage (V): 25 / 35 / 50; Impedance ratio (max.) Z−40℃/Z+20℃: 3 / 3 / 3 (120Hz)
Endurance (125℃) (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℃)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4
Vibration	Vibration test condition: Frequency range: 10 to 2000Hz; Displacement amplitude: 1.5 mm max.; Acceleration: 40G (392m/s²) max.; Sweep rate: 0.5 octave/min.; Vibration axis and duration: X, Y, Z per 2 hours, total 6 hours; Fixation: Capacitor mouted 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 1998 (IEC 60384-1 1992, -4 1985)

Outline Drawing

Unit : mm



ϕD	16	18	20	22
F	7.5	7.5	10.0	10.0
ϕd	0.8	0.8	1.0	1.0
α	2.0	2.0	2.0	2.0

Coefficient of Frequency for Rated Ripple Current

Rated capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
1200 to 82000	0.85	0.95	1.00	1

Part numbering system (example : 35V2700μF)

RKE	—	35	V	272	M	K7	#	—	⬚
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Forming symbol

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.

Standard Ratings

Rated voltage(V) / Item / Rated capacitance (μF)	25					35					50				
	Case	Casing symbol	ESR (Ω max.)		Rated ripple current	Case	Casing symbol	ESR (Ω max.)		Rated ripple current	Case	Casing symbol	ESR (Ω max.)		Rated ripple current
	φD × L (mm)		20℃	-40℃	(mArms)	φD × L (mm)		20℃	-40℃	(mArms)	φD × L (mm)		20℃	-40℃	(mArms)
1200	—	—	—	—	—	—	—	—	—	—	16×31.5	J7	0.048	0.20	2940
1500	—	—	—	—	—	16×31.5	J7	0.024	0.14	3160	16×35.5	J8	0.039	0.16	3300
2200	—	—	—	—	—	16×35.5	J8	0.023	0.13	3590	18×35.5	K8	0.033	0.15	3520
2700	16×31.5	J7	0.024	0.14	3160	18×31.5	K7	0.020	0.11	3410	—	—	—	—	—
3300	16×35.5	J8	0.023	0.13	3590	18×35.5	K8	0.019	0.10	3840	20×40	L9	0.027	0.12	3930
4700	18×31.5	K7	0.020	0.11	3410	18×40	K9	0.017	0.094	4250	—	—	—	—	—
5600	18×35.5	K8	0.019	0.10	3840	20×40	L9	0.017	0.094	4500	—	—	—	—	—
6800	18×40	K9	0.017	0.094	4250	—	—	—	—	—	—	—	—	—	—
7800	20×40	L9	0.017	0.094	4500	—	—	—	—	—	—	—	—	—	—
8200	22×40	N9	0.017	0.094	4750	—	—	—	—	—	—	—	—	—	—

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