RJM MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

ELNA

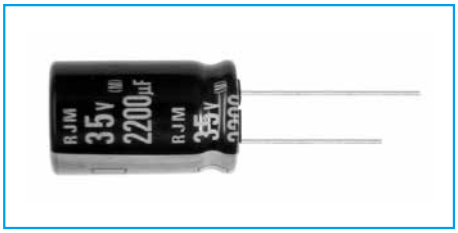
105°C Use, Miniature, Long Life, Extra Low Impedance Capacitors

GREEN CAP | Low Impedance | 105°C 10000hours | Anti-cleaning solvent

- Long life than RJF series.
- Guarantees 10000 hours at 105℃.
  (φ5, φ6.3 : 6000 hours, φ8 : 8000 hours)

Long life

RJM ⇦ RJF



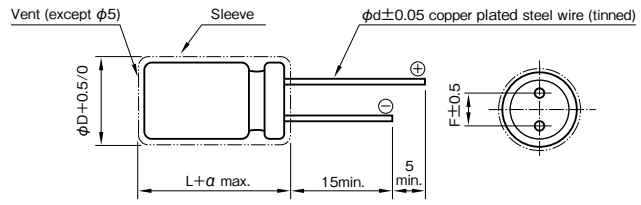
Marking color : White print on a black sleeve

Specifications

Item	Performance
Category temperature range (℃)	−40 to +105
Tolerance at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA) (max.)	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): 6.3 / 10 / 16 / 25 / 35 / 50 tanδ (max.): 0.22 / 0.19 / 0.16 / 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): 6.3 / 10 / 16 / 25 / 35 / 50 Impedance ratio (max.) Z−25℃/Z+20℃: 2 / 2 / 2 / 2 / 2 / 2 Impedance ratio (max.) Z−40℃/Z+20℃: 3 / 3 / 3 / 3 / 3 / 3 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: φ5 & φ6.3 : 6000 hours; φ8 : 8000 hours; φ10 or more: 10000 hours Leakage current: The initial specified value or less Percentage of capacitance change: Within ±25% of initial value (φ6.3 or less : ±30%) Tangent of the loss angle: 200% or less of the initial specified value
Shelf life (105℃)	Test time: 1000 hours Leakage current: The initial specified value or less Percentage of capacitance change: Within ±25% of initial value (φ6.3 or less : ±30%) Tangent of the loss angle: 200% or less of the initial specified value Voltage application treatment : According to JIS C5101-4 4.1
Applicable standards	JIS C5101 - 1, - 4 (IEC 60384 - 1, - 4)

Outline Drawing

Unit : mm



φD	5	6.3	8	10	12.5	16
F	2.0	2.5	3.5	5.0	5.0	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8
α	1.0	1.0	1.0	2.0	2.0	2.0

Coefficient of Frequency for Rated Ripple Current

Rated capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
27 to 33	0.42	0.70	0.90	1
39 to 270	0.50	0.73	0.92	1
330 to 680	0.55	0.77	0.94	1
820 to 1800	0.60	0.80	0.96	1
2200 to 8200	0.70	0.85	0.98	1

Product code system : 10V1000μF (*For general product)

RS*	RJM	102	M	1L	E15	□	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.

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)	6.3 (1J) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	10 (1L) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	16 (1E) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)
82	—	—	—	—	—	—	—	—	—	—	5×11.5	C11	0.22	0.80	345
100	—	—	—	—	—	5×11.5	C11	0.22	0.80	345	5×11.5	C11	0.22	0.80	345
120	—	—	—	—	—	5×11.5	C11	0.22	0.80	345	—	—	—	—	—
150	5×11.5	C11	0.22	0.80	345	5×11.5	C11	0.22	0.80	345	—	—	—	—	—
180	—	—	—	—	—	—	—	—	—	—	6.3×11.5	D11	0.094	0.35	540
220	5×11.5	C11	0.22	0.80	345	6.3×11.5	D11	0.094	0.35	540	6.3×11.5	D11	0.094	0.35	540
270	—	—	—	—	—	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—
330	6.3×11.5	D11	0.094	0.35	540	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—
470	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—	8×12	E12	0.056	0.19	945
680	—	—	—	—	—	8×12	E12	0.056	0.19	945	8×15	E15	0.045	0.15	1250
											10×12.5	F12	0.039	0.14	1560
820	8×12	E12	0.056	0.19	945	—	—	—	—	—	—	—	—	—	—
1000	—	—	—	—	—	8×15	E15	0.045	0.15	1250	8×20	E20	0.029	0.11	1500
						10×12.5	F12	0.039	0.14	1560	10×16	F16	0.028	0.10	2000
1200	8×15	E15	0.045	0.15	1250	—	—	—	—	—	—	—	—	—	—
	10×12.5	F12	0.039	0.14	1560										
1500	8×20	E20	0.029	0.11	1500	8×20	E20	0.029	0.11	1500	10×20	F20	0.020	0.060	2500
						10×16	F16	0.028	0.10	2000					
1800	10×16	F16	0.028	0.10	2000	10×20	F20	0.020	0.060	2500	10×25	F25	0.017	0.051	2900
2200	10×20	F20	0.020	0.060	2500	10×25	F25	0.017	0.051	2900	12.5×20	G20	0.017	0.043	2600
2700	10×25	F25	0.017	0.051	2900	—	—	—	—	—	12.5×25	G25	0.015	0.038	3200
3300	—	—	—	—	—	12.5×20	G20	0.017	0.043	2600	12.5×30	G30	0.013	0.033	3795
											16×20	J20	0.015	0.038	3575
3900	12.5×20	G20	0.017	0.043	2600	12.5×25	G25	0.015	0.038	3200	12.5×35	G35	0.012	0.031	4120
4700	12.5×25	G25	0.015	0.038	3200	12.5×30	G30	0.013	0.033	3795	16×25	J25	0.013	0.035	3810
						16×20	J20	0.015	0.038	3575					
5600	12.5×30	G30	0.013	0.033	3795	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—
6800	12.5×35	G35	0.012	0.031	4120	16×25	J25	0.013	0.035	3810	—	—	—	—	—
	16×20	J20	0.015	0.038	3575										
8200	16×25	J25	0.013	0.035	3810	—	—	—	—	—	—	—	—	—	—

Rated voltage(V) / Item / Rated capacitance (μF)	25 (1T) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	35 (1G) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	50 (1U) Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)
27	—	—	—	—	—	—	—	—	—	—	5×11.5	C11	0.34	1.18	238
39	5×11.5	C11	0.22	0.80	345	5×11.5	C11	0.22	0.80	345	6.3×11.5	D11	0.14	0.50	385
47	—	—	—	—	—	5×11.5	C11	0.22	0.80	345	—	—	—	—	—
56	5×11.5	C11	0.22	0.80	345	—	—	—	—	—	6.3×11.5	D11	0.14	0.50	385
68	5×11.5	C11	0.22	0.80	345	—	—	—	—	—	—	—	—	—	—
82	5×11.5	C11	0.22	0.80	345	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—
100	6.3×11.5	D11	0.094	0.35	540	6.3×11.5	D11	0.094	0.35	540	8×12	E12	0.074	0.22	724
120	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—	8×15	E15	0.061	0.18	950
150	6.3×11.5	D11	0.094	0.35	540	—	—	—	—	—	10×12.5	F12	0.061	0.18	1250
180	—	—	—	—	—	—	—	—	—	—	8×20	E20	0.046	0.14	1190
220	—	—	—	—	—	8×12	E12	0.056	0.19	945	10×16	F16	0.042	0.12	1650
270	—	—	—	—	—	8×15	E15	0.045	0.15	1250	10×20	F20	0.030	0.090	2060
330	8×12	E12	0.056	0.19	945	10×12.5	F12	0.039	0.14	1560	10×25	F25	0.028	0.084	2420
390	8×15	E15	0.045	0.15	1250	8×20	E20	0.029	0.11	1500	—	—	—	—	—
470	10×12.5	F12	0.039	0.14	1560	10×16	F16	0.028	0.10	2000	12.5×20	G20	0.027	0.068	2300
560	8×20	E20	0.029	0.11	1500	10×20	F20	0.020	0.060	2500	12.5×25	G25	0.023	0.059	2800
680	10×16	F16	0.028	0.10	2000	10×25	F25	0.017	0.051	2900	12.5×30	G30	0.021	0.052	3500
820	10×20	F20	0.020	0.060	2500	—	—	—	—	—	12.5×35	G35	0.019	0.051	3810
											16×20	J20	0.023	0.059	3070
1000	10×25	F25	0.017	0.051	2900	12.5×20	G20	0.017	0.043	2600	16×25	J25	0.021	0.056	3270
1200	—	—	—	—	—	12.5×25	G25	0.015	0.038	3200	—	—	—	—	—
1500	12.5×20	G20	0.017	0.043	2600	12.5×30	G30	0.013	0.033	3795	—	—	—	—	—
						16×20	J20	0.015	0.038	3575					
1800	12.5×25	G25	0.015	0.038	3200	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—
2200	12.5×30	G30	0.013	0.033	3795	16×25	J25	0.013	0.035	3810	—	—	—	—	—
	16×20	J20	0.015	0.038	3575										
2700	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—	—	—	—	—	—
3300	16×25	J25	0.013	0.035	3810	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105℃ , 100kHz ; Impedance : 100kHz

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