ELNA

Miniature Aluminum Electrolytic Capacitors RJM series

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

- Long life, extra low impedance capacitor.
- Guaranteed 10000 hours at 105℃.
  (φ5, φ6.3 : 6000 hours, φ8 : 8000 hours)
- Environmental : GREEN CAP™ , RoHS compliance.

Long life

RJM ⇦ RJF

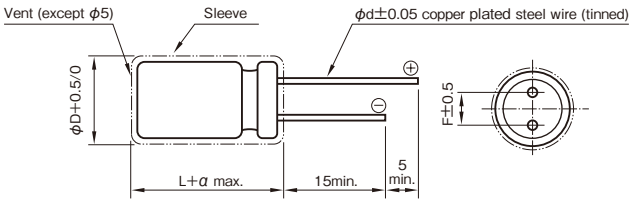
Marking color : White print on a black sleeve

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	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.

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

Standard Ratings

Rated voltage(V) / Item / Rated capacitance (μF)	6.3 (1J)					10 (1L)					16 (1E)				
	Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	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)					35 (1G)					50 (1U)				
	Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	Case φDxL (mm)	Size code	Impedance (Ω max.) 20℃	Impedance (Ω max.) -10℃	Rated ripple current (mArms)	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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