

**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°C.  
( $\phi 5$ ,  $\phi 6.3$  : 6000 hours,  $\phi 8$  : 8000 hours)
- Environmental : GREEN CAP™, RoHS compliance.



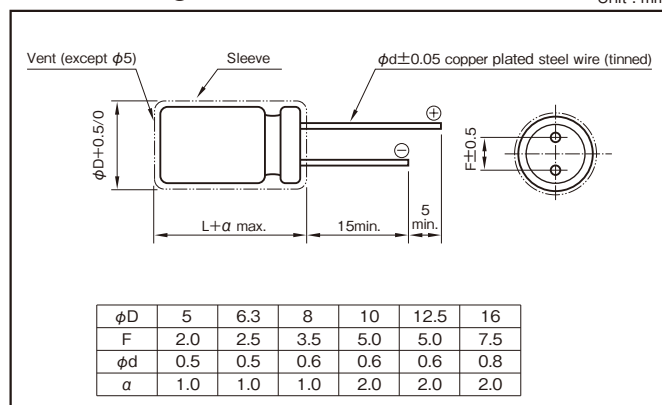
Marking color : White print on a black sleeve

**Specifications**

Item	Performance							
Category temperature range (°C)	-40 to +105							
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)		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°C,120Hz)							
Characteristics at high and low temperature	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2
		Z-40°C/Z+20°C	3	3	3	3	3	3
(120Hz)								
Endurance (105°C) (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°C)	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

**Coefficient of Frequency for Rated Ripple Current**

Rated capacitance ( $\mu F$ ) \ 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 : 10V1000 $\mu F$  (\*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.

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.

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) Rated capacitance (μF)	Item	6.3 (1J)					10 (1L)					16 (1E)				
		Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
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
820	8×12	E12	0.056	0.19	945	—	—	—	—	—	—	10×12.5	F12	0.039	0.14	1560
1000	—	—	—	—	—	—	8×15	E15	0.045	0.15	1250	8×20	E20	0.029	0.11	1500
1200	—	—	—	—	—	—	10×12.5	F12	0.039	0.14	1560	10×16	F16	0.028	0.10	2000
1500	8×15	E15	0.045	0.15	1250	—	—	—	—	—	—	—	—	—	—	—
1800	10×16	F16	0.028	0.10	2000	—	—	—	—	—	—	—	—	—	—	—
2200	10×20	F20	0.020	0.060	2500	—	—	—	—	—	—	—	—	—	—	—
2700	10×25	F25	0.017	0.051	2900	—	—	—	—	—	—	—	—	—	—	—
3300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3900	12.5×20	G20	0.017	0.043	2600	—	—	—	—	—	—	—	—	—	—	—
4700	12.5×25	G25	0.015	0.038	3200	—	—	—	—	—	—	—	—	—	—	—
5600	12.5×30	G30	0.013	0.033	3795	—	—	—	—	—	—	—	—	—	—	—
6800	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—	—	—	—	—	—	—
8200	16×20	J20	0.015	0.038	3575	—	—	—	—	—	—	—	—	—	—	—
	16×25	J25	0.013	0.035	3810	—	—	—	—	—	—	—	—	—	—	—

Rated voltage(V) Rated capacitance (μF)	Item	25 (1T)					35 (1G)					50 (1U)				
		Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (mm)	Size code	Impedance (Ω max.)		Rated ripple current (mA rms)
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
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
1000	10×25	F25	0.017	0.051	2900	—	12.5×20	G20	0.017	0.043	2600	16×20	J20	0.023	0.059	3070
1200	—	—	—	—	—	—	12.5×25	G25	0.015	0.038	3200	16×25	J25	0.021	0.056	3270
1500	12.5×20	G20	0.017	0.043	2600	—	12.5×30	G30	0.013	0.033	3795	—	—	—	—	—
1800	12.5×25	G25	0.015	0.038	3200	—	16×20	J20	0.015	0.038	3575	—	—	—	—	—
2200	12.5×30	G30	0.013	0.033	3795	—	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—
2700	16×20	J20	0.015	0.038	3575	—	16×25	J25	0.013	0.035	3810	—	—	—	—	—
3300	12.5×35	G35	0.012	0.031	4120	—	—	—	—	—	—	—	—	—	—	—
	16×25	J25	0.013	0.035	3810	—	—	—	—	—	—	—	—	—	—	—

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