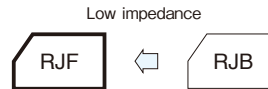


**ELNA****Miniature Aluminum Electrolytic Capacitors RJF series**

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

- Extra low impedance capacitor.
- Environmental : GREEN CAP™, RoHS compliance.



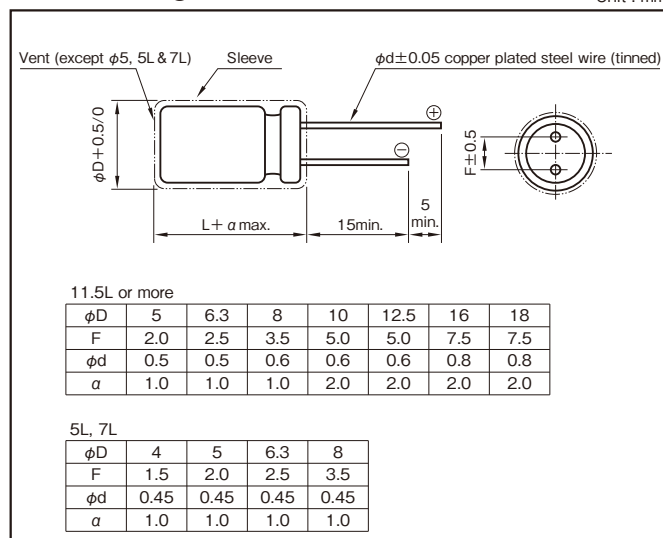
Marking color : White print on a black sleeve

**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	63	80	100
	tanδ (max.)		0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08
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	63	80	100
	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2	2
		Z-40°C/Z+20°C	3	3	3	3	3	3	3	3	3
(120Hz)											
Endurance (105°C) (Applied ripple current)	Test time		5L & 7L : 1000 hours φ5 & φ6.3 : 2000 hours (63 to 100WV:5000 hours) φ8 & φ10 : 3000 hours (63 to 100WV:7000 hours) φ12.5 to φ18 : 5000 hours (63 to 100WV:10000 hours)								
	Leakage current		The initial specified value or less								
	Percentage of capacitance change		Within ±25% of initial value								
	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								
	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 (µF) \ Frequency (Hz)	120	1k	10k	100k
5.6 to 180	0.40	0.75	0.90	1
220 to 390	0.50	0.85	0.94	1
470 to 1800	0.60	0.87	0.95	1
2200 to 3900	0.75	0.90	0.95	1
4700 to 6800	0.85	0.95	0.98	1

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

RS*	RJF	102	M	1L	F16	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)	Item	6.3 (1J)					10 (1L)					16 (1E)				
		Case $\phi$ DxL (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)	Case $\phi$ DxL (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)	Case $\phi$ DxL (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
18	—	—	—	—	—	—	—	—	—	—	—	4 × 7	B07	0.92	2.8	130
27	—	—	—	—	—	—	4 × 7	B07	0.89	2.7	130	6.3 × 5	D05	0.30	0.95	210
33	—	—	—	—	—	—	—	—	—	—	—	5 × 7	C07	0.45	1.4	210
39	4 × 7	B07	0.85	2.6	130	—	—	—	—	—	—	6.3 × 5	D05	0.30	0.95	210
47	—	—	—	—	—	—	6.3 × 5	D05	0.29	0.93	210	—	—	—	—	—
56	—	—	—	—	—	—	5 × 7	C07	0.44	1.4	210	5 × 11.5	C11	0.22	0.80	345
68	5 × 7	C07	0.43	1.3	210	—	—	—	—	—	—	6.3 × 7	D07	0.24	0.72	300
100	6.3 × 5	D05	0.28	0.91	210	—	5 × 11.5	C11	0.22	0.8	345	—	—	—	—	—
120	—	—	—	—	—	—	6.3 × 7	D07	0.23	0.69	300	8 × 7	E07	0.15	0.45	380
150	—	—	—	—	—	—	—	—	—	—	—	6.3 × 11.5	D11	0.094	0.35	540
180	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
220	8 × 7	E07	0.15	0.45	380	—	8 × 7	E07	0.15	0.45	380	—	—	—	—	—
330	6.3 × 11.5	D11	0.094	0.35	540	—	6.3 × 11.5	D11	0.094	0.35	540	—	—	—	—	—
470	—	—	—	—	—	—	8 × 12	E12	0.056	0.19	945	8 × 12	E12	0.056	0.19	945
560	8 × 12	E12	0.056	0.19	945	—	—	—	—	—	—	8 × 15	E15	0.045	0.15	1250
680	—	—	—	—	—	—	10 × 12.5	F12	0.039	0.14	1330	10 × 16	F16	0.028	0.10	1760
820	8 × 15	E15	0.045	0.15	1250	—	—	—	—	—	—	—	—	—	—	—
1000	10 × 12.5	F12	0.039	0.14	1330	—	10 × 16	F16	0.028	0.10	1760	—	—	—	—	—
1200	10 × 16	F16	0.028	0.10	1760	—	10 × 20	F20	0.020	0.060	1960	10 × 20	F20	0.020	0.060	1960
1500	10 × 20	F20	0.020	0.060	1960	—	10 × 25	F25	0.018	0.054	2250	10 × 25	F25	0.018	0.054	2250
2200	10 × 25	F25	0.018	0.054	2250	—	12.5 × 20	G20	0.017	0.043	2480	12.5 × 20	G20	0.017	0.043	2480
2700	—	—	—	—	—	—	—	—	—	—	—	12.5 × 25	G25	0.015	0.038	2900
3300	12.5 × 20	G20	0.017	0.043	2480	—	16 × 20	J20	0.015	0.038	3250	16 × 20	J20	0.015	0.038	3250
3900	12.5 × 25	G25	0.015	0.038	2900	—	16 × 25	J25	0.013	0.035	3630	16 × 25	J25	0.013	0.035	3630
4700	12.5 × 30	G30	0.013	0.033	3450	—	—	—	—	—	—	—	—	—	—	—
5600	16 × 20	J20	0.015	0.038	3570	—	—	—	—	—	—	—	—	—	—	—
6800	16 × 25	J25	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—	—

Rated voltage (V)	Item	25 (1T)					35 (1G)					50 (1U)				
		Case $\phi$ D × L (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)	Case $\phi$ D × L (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)	Case $\phi$ D × L (mm)	Size code	Impedance ( $\Omega$ max.)		Rated ripple current (mA rms)
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
5.6	—	—	—	—	—	—	—	—	—	—	—	4 × 7	B07	1.0	3.0	130
10	5 × 5	C05	0.61	1.5	130	—	5 × 5	C05	0.63	1.5	130	5 × 7	C07	0.50	1.5	210
15	4 × 7	B07	0.94	2.9	130	—	4 × 7	B07	0.96	2.9	130	—	—	—	—	—
18	—	—	—	—	—	—	5 × 7	C07	0.47	1.5	210	—	—	—	—	—
22	6.3 × 5	D05	0.31	0.97	210	—	6.3 × 5	D05	0.32	1.0	210	6.3 × 7	D07	0.26	0.78	300
27	5 × 7	C07	0.46	1.4	210	—	—	—	—	—	—	5 × 11.5	C11	0.34	1.18	238
33	—	—	—	—	—	—	5 × 11.5	C11	0.22	0.80	345	—	—	—	—	—
39	—	—	—	—	—	—	6.3 × 7	D07	0.25	0.75	300	8 × 7	E07	0.17	0.51	380
47	5 × 11.5	C11	0.22	0.80	345	—	—	—	—	—	—	—	—	—	—	—
56	6.3 × 7	D07	0.24	0.72	300	—	8 × 7	E07	0.16	0.48	380	6.3 × 11.5	D11	0.14	0.50	385
100	—	—	—	—	—	—	6.3 × 11.5	D11	0.094	0.35	540	—	—	—	—	—
120	8 × 7	E07	0.15	0.45	380	—	—	—	—	—	—	8 × 12	E12	0.074	0.22	724
150	6.3 × 11.5	D11	0.094	0.35	540	—	—	—	—	—	—	—	—	—	—	—
180	—	—	—	—	—	—	—	—	—	—	—	8 × 15	E15	0.061	0.18	950
220	8 × 12	E12	0.056	0.19	945	—	8 × 12	E12	0.056	0.19	945	10 × 12.5	F12	0.061	0.18	979
270	—	—	—	—	—	—	—	—	—	—	—	8 × 20	E20	0.046	0.14	1190
330	10 × 12.5	F12	0.039	0.14	1330	—	10 × 12.5	F12	0.039	0.14	1330	10 × 16	F16	0.042	0.12	1370
470	10 × 16	F16	0.028	0.10	1760	—	8 × 20	E20	0.029	0.11	1500	10 × 20	F20	0.030	0.090	1580
560	—	—	—	—	—	—	10 × 16	F16	0.028	0.10	1760	10 × 25	F25	0.028	0.085	1870
680	10 × 20	F20	0.020	0.060	1960	—	10 × 20	F20	0.020	0.060	1960	12.5 × 20	G20	0.027	0.068	2050
820	10 × 25	F25	0.018	0.054	2250	—	12.5 × 20	G20	0.017	0.043	2480	12.5 × 25	G25	0.023	0.059	2410
1000	12.5 × 20	G20	0.017	0.043	2480	—	16 × 20	J20	0.015	0.038	3250	16 × 20	J20	0.023	0.059	2730
1200	—	—	—	—	—	—	16 × 25	J25	0.013	0.035	3630	16 × 25	J25	0.021	0.056	3010
1500	12.5 × 25	G25	0.015	0.038	2900	—	—	—	—	—	—	—	—	—	—	—
1800	16 × 20	J20	0.015	0.038	3250	—	16 × 25	J25	0.013	0.035	3630	—	—	—	—	—
2200	16 × 25	J25	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—	—
2700	16 × 25	J25	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—	—

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

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) Item Rated capacitance (μF)	63 (4E)					80 (1R)					100 (1H)				
	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	
6.8	—	—	—	—	—	—	—	—	—	—	5 × 11.5	C11	1.4	5.6	125
15	5 × 11.5	C11	0.88	3.5	165	—	—	—	—	—	6.3 × 11.5	D11	0.57	2.3	205
27	—	—	—	—	—	—	—	—	—	—	8 × 12	E12	0.36	1.4	335
33	6.3 × 11.5	D11	0.35	1.4	265	—	—	—	—	—	—	—	—	—	—
39	—	—	—	—	—	—	—	—	—	—	8 × 15	E15	0.25	1.0	450
47	—	—	—	—	—	—	—	—	—	—	10 × 12.5	F12	0.17	0.66	480
56	8 × 12	E12	0.22	0.88	500	—	—	—	—	—	8 × 20	E20	0.19	0.76	565
68	—	—	—	—	—	10 × 12.5	F12	0.17	0.66	480	10 × 16	F16	0.11	0.47	600
82	10 × 12.5	F12	0.11	0.44	690	—	—	—	—	—	10 × 20	F20	0.084	0.34	800
100	—	—	—	—	—	10 × 16	F16	0.11	0.47	600	12.5 × 15	G15	0.11	0.34	750
120	8 × 20	E20	0.12	0.48	820	10 × 20	F20	0.084	0.34	800	10 × 25	F25	0.069	0.28	900
	10 × 16	F16	0.076	0.31	950										
150	—	—	—	—	—	10 × 25	F25	0.069	0.28	900	12.5 × 20	G20	0.062	0.18	1100
180	10 × 20	F20	0.056	0.23	1150	—	—	—	—	—	—	—	—	—	—
220	10 × 25	F25	0.046	0.19	1350	12.5 × 20	G20	0.062	0.18	1100	16 × 20	J20	0.048	0.15	1350
270	12.5 × 20	G20	0.041	0.13	1500	—	—	—	—	—	12.5 × 30	G30	0.042	0.13	1500
330	—	—	—	—	—	12.5 × 25	G25	0.047	0.14	1250	12.5 × 35	G35	0.036	0.11	1650
						16 × 20	J20	0.048	0.15	1350	16 × 25	J25	0.038	0.12	1700
											18 × 20	K20	0.045	0.14	1500
390	12.5 × 25	G25	0.031	0.093	1900	12.5 × 30	G30	0.042	0.13	1500	12.5 × 40	G40	0.032	0.095	1800
470	12.5 × 30	G30	0.028	0.084	2300	12.5 × 35	G35	0.036	0.11	1650	16 × 31.5	J31	0.032	0.095	1850
	16 × 20	J20	0.032	0.096	2000	16 × 25	J25	0.038	0.12	1700	18 × 25	K25	0.036	0.11	1750
						18 × 20	K20	0.045	0.14	1500					
560	12.5 × 35	G35	0.024	0.070	2500	—	—	—	—	—	16 × 35.5	J35	0.029	0.086	2000
											18 × 31.5	K31	0.030	0.090	1900
680	12.5 × 40	G40	0.021	0.063	2800	16 × 31.5	J31	0.032	0.095	1850	16 × 40	J40	0.027	0.081	2480
	16 × 25	J25	0.025	0.075	2600						18 × 35.5	K35	0.027	0.081	2200
	18 × 20	K20	0.030	0.090	2500										
820	16 × 31.5	J31	0.021	0.063	2850	16 × 35.5	J35	0.029	0.086	2000	18 × 40	K40	0.026	0.077	2700
	18 × 25	K25	0.024	0.072	2800	18 × 31.5	K31	0.030	0.090	1900					
1000	16 × 35.5	J35	0.019	0.057	2900	—	—	—	—	—	—	—	—	—	—
1200	16 × 40	J40	0.018	0.054	3400	18 × 40	K40	0.026	0.077	2700	—	—	—	—	—
	18 × 31.5	K31	0.020	0.060	3300										
1500	18 × 35.5	K35	0.018	0.054	3400	—	—	—	—	—	—	—	—	—	—
1800	18 × 40	K40	0.017	0.051	3500	—	—	—	—	—	—	—	—	—	—

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