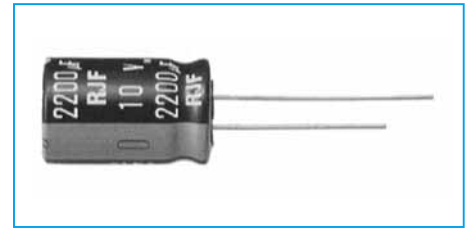
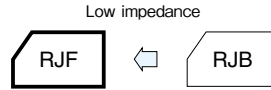


105°C Use, Miniature, High-Reliability, Extra Low Impedance Capacitors

GREEN CAP Low Impedance 105°C 5000hours Anti-cleaning solvent

- Higher ripple current and Lower impedance than RJB series.



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)	Less than 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
Z-40°C/Z+20°C 3 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										
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)									

MINIATURE ALUMINUM

Outline Drawing

Unit : mm

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.0	1.0	1.0	2.0	2.0	2.0	2.0

φD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.45
α	1.0	1.0	1.0	1.0

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

Part numbering system (example : 10V1000µF)

RJF	—	10	V	102	M	H4	#	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping(Forming) symbol

- The electric characteristics are described on page 183.

- The standard ratings are described on the next 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.

Standard Ratings

Rated voltage (V)	Item	6.3					10					16				
		Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})	Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})	Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
	18	—	—	—	—	—	—	—	—	—	4×7	D1	0.92	2.8	130	
	27	—	—	—	—	4×7	D1	0.89	2.7	130	6.3×5	F0	0.30	0.95	210	
	33	—	—	—	—	—	—	—	—	—	5×7	E1	0.45	1.4	210	
											6.3×5	F0	0.30	0.95	210	
	39	4×7	D1	0.85	2.6	130	—	—	—	—	—	—	—	—	—	
	47	—	—	—	—	—	6.3×5	F0	0.29	0.93	210	—	—	—	—	—
	56	—	—	—	—	—	5×7	E1	0.44	1.4	210	5×11.5	E3	0.22	0.80	345
	68	5×7	E1	0.43	1.3	210	—	—	—	—	6.3×7	F1	0.24	0.72	300	
	100	6.3×5	F0	0.28	0.91	210	5×11.5	E3	0.22	0.8	345	—	—	—	—	—
	120	—	—	—	—	—	6.3×7	F1	0.23	0.69	300	8×7	G1	0.15	0.45	380
												6.3×11.5	F3	0.094	0.35	540
	150	5×11.5	E3	0.22	0.80	345	—	—	—	—	—	—	—	—	—	—
		6.3×7	F1	0.23	0.69	300	—	—	—	—	—	—	—	—	—	—
	180	—	—	—	—	—	8×7	G1	0.15	0.45	380	—	—	—	—	—
	220	8×7	G1	0.15	0.45	380	6.3×11.5	F3	0.094	0.35	540	—	—	—	—	—
	330	6.3×11.5	F3	0.094	0.35	540	—	—	—	—	8×12	G3	0.056	0.19	945	
	470	—	—	—	—	—	8×12	G3	0.056	0.19	945	8×15	G4	0.045	0.15	1250
	560	8×12	G3	0.056	0.19	945	—	—	—	—	10×16	H4	0.028	0.10	1760	
	680	—	—	—	—	—	10×12.5	H3	0.039	0.14	1330	—	—	—	—	—
	820	8×15	G4	0.046	0.15	1250	—	—	—	—	—	—	—	—	—	—
	1000	10×12.5	H3	0.039	0.14	1330	10×16	H4	0.028	0.10	1760	10×20	H5	0.020	0.060	1960
	1200	10×16	H4	0.028	0.10	1760	10×20	H5	0.020	0.060	1960	10×25	H6	0.018	0.054	2250
	1500	10×20	H5	0.020	0.060	1960	10×25	H6	0.018	0.054	2250	12.5×20	I5	0.017	0.043	2480
	2200	10×25	H6	0.018	0.054	2250	12.5×20	I5	0.017	0.043	2480	12.5×25	I6	0.015	0.038	2900
	2700	—	—	—	—	—	—	—	—	—	16×20	J5	0.015	0.038	3250	
	3300	12.5×20	I5	0.017	0.043	2480	12.5×25	I6	0.015	0.038	2900	16×25	J6	0.013	0.035	3630
	3900	12.5×25	I6	0.015	0.038	2900	16×20	J5	0.015	0.038	3250	16×25	J6	0.013	0.035	3630
	4700	12.5×30	I7	0.013	0.033	3450	16×25	J6	0.013	0.035	3630	—	—	—	—	—
	5600	16×20	J5	0.015	0.038	3570	16×25	J6	0.013	0.035	3630	—	—	—	—	—
	6800	16×25	J6	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—

Rated voltage (V)	Item	25					35					50				
		Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})	Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})	Case	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA _{rms})
				20°C	-10°C				20°C	-10°C				20°C	-10°C	
	5.6	—	—	—	—	—	—	—	—	—	4×7	D1	1.0	3.0	130	
	10	5×5	E0	0.61	1.5	130	5×5	E0	0.63	1.5	130	5×7	E1	0.50	1.5	210
		4×7	D1	0.94	2.9	130	4×7	D1	0.96	2.9	130					
	15	4×7	D1	0.94	2.9	130	—	—	—	—	—	—	—	—	—	—
	18	—	—	—	—	—	5×7	E1	0.47	1.5	210	—	—	—	—	—
	22	6.3×5	F0	0.31	0.97	210	6.3×5	F0	0.32	1.0	210	6.3×7	F1	0.26	0.78	300
												5×11.5	E3	0.34	1.18	238
	27	5×7	E1	0.46	1.4	210	—	—	—	—	—	—	—	—	—	—
	33	—	—	—	—	—	5×11.5	E3	0.22	0.80	345	8×7	G1	0.17	0.51	380
	39	—	—	—	—	—	6.3×7	F1	0.25	0.75	300	—	—	—	—	—
	47	5×11.5	E3	0.22	0.80	345	—	—	—	—	—	—	—	—	—	—
	56	6.3×7	F1	0.24	0.72	300	8×7	G1	0.16	0.48	380	6.3×11.5	F3	0.14	0.50	385
							6.3×11.5	F3	0.094	0.35	540					
	100	8×7	G1	0.15	0.45	380	—	—	—	—	8×12	G3	0.074	0.22	724	
		6.3×11.5	F3	0.13	0.41	405	—	—	—	—	—	—	—	—	—	—
	120	—	—	—	—	—	—	—	—	—	8×15	G4	0.061	0.18	950	
	150	—	—	—	—	—	8×12	G3	0.056	0.19	945	10×12.5	H3	0.061	0.18	979
	180	—	—	—	—	—	—	—	—	—	8×20	G5	0.046	0.14	1190	
	220	8×12	G3	0.056	0.19	945	10×12.5	H3	0.039	0.14	1330	10×16	H4	0.042	0.12	1370
	270	—	—	—	—	—	8×20	G5	0.029	0.11	1500	10×20	H5	0.030	0.090	1580
	330	10×12.5	H3	0.039	0.14	1330	10×16	H4	0.028	0.10	1760	10×25	H6	0.028	0.085	1870
	470	10×16	H4	0.028	0.10	1760	10×20	H5	0.020	0.060	1960	12.5×20	I5	0.027	0.068	2050
	560	—	—	—	—	—	10×25	H6	0.018	0.054	2250	12.5×25	I6	0.023	0.059	2410
	680	10×20	H5	0.020	0.060	1960	12.5×20	I5	0.017	0.043	2480	16×20	J5	0.023	0.059	2730
	820	10×25	H6	0.018	0.054	2250	—	—	—	—	16×20	J5	0.023	0.059	2730	
	1000	12.5×20	I5	0.017	0.043	2480	12.5×25	I6	0.015	0.038	2900	16×25	J6	0.021	0.056	3010
	1200	—	—	—	—	—	16×20	J5	0.015	0.038	3250	—	—	—	—	—
	1500	12.5×25	I6	0.015	0.038	2900	16×25	J6	0.013	0.035	3630	—	—	—	—	—
	1800	16×20	J5	0.015	0.038	3250	16×25	J6	0.013	0.035	3630	—	—	—	—	—
	2200	16×25	J6	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—
	2700	16×25	J6	0.013	0.035	3630	—	—	—	—	—	—	—	—	—	—

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

Standard Ratings

Rated voltage (V)	Item	63				80				100						
		Case ϕ DxL (mm)	Casing symbol	Impedance (Ω max.)		Case ϕ DxL (mm)	Casing symbol	Impedance (Ω max.)		Case ϕ DxL (mm)	Casing symbol	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	E3	1.4	5.6	125	
15		5 × 11.5	E3	0.88	3.5	165	—	—	—	—	6.3 × 11.5	F3	0.57	2.3	205	
27		—	—	—	—	—	—	—	—	—	8 × 12	G3	0.36	1.4	335	
33		6.3 × 11.5	F3	0.35	1.4	265	—	—	—	—	—	—	—	—	—	
39		—	—	—	—	—	—	—	—	—	8 × 15	G4	0.25	1.0	450	
47		—	—	—	—	—	—	—	—	—	10 × 12.5	H3	0.17	0.66	480	
56		8 × 12	G3	0.22	0.88	500	—	—	—	—	8 × 20	G5	0.19	0.76	565	
68		—	—	—	—	—	10 × 12.5	H3	0.17	0.66	480	10 × 16	H4	0.11	0.47	600
82		10 × 12.5	H3	0.11	0.44	690	—	—	—	—	10 × 20	H5	0.084	0.34	800	
100		—	—	—	—	—	10 × 16	H4	0.11	0.47	600	12.5 × 15	I4	0.11	0.34	750
120		8 × 20	G5	0.12	0.48	820	10 × 20	H5	0.084	0.34	800	10 × 25	H6	0.069	0.28	900
		10 × 16	H4	0.076	0.31	950										
150		—	—	—	—	—	10 × 25	H6	0.069	0.28	900	12.5 × 20	I5	0.062	0.18	1100
180		10 × 20	H5	0.056	0.23	1150	—	—	—	—	—	—	—	—	—	—
220		10 × 25	H6	0.046	0.19	1350	12.5 × 20	I5	0.062	0.18	1100	16 × 20	J5	0.048	0.15	1350
270		12.5 × 20	I5	0.041	0.13	1500	—	—	—	—	—	12.5 × 30	I7	0.042	0.13	1500
330		—	—	—	—	—	12.5 × 25	I6	0.047	0.14	1250	12.5 × 35	I8	0.036	0.11	1650
							16 × 20	J5	0.048	0.15	1350	16 × 25	J6	0.038	0.12	1700
												18 × 20	K5	0.045	0.14	1500
390		12.5 × 25	I6	0.031	0.093	1900	12.5 × 30	I7	0.042	0.13	1500	12.5 × 40	I9	0.032	0.095	1800
470		12.5 × 30	I7	0.028	0.084	2300	12.5 × 35	I8	0.036	0.11	1650	16 × 31.5	J7	0.032	0.095	1850
						16 × 25	J6	0.038	0.12	1700						
		16 × 20	J5	0.032	0.096	2000	18 × 20	K5	0.045	0.14	1500					
560		12.5 × 35	I8	0.024	0.070	2500	—	—	—	—	—	16 × 35.5	J8	0.029	0.086	2000
												18 × 31.5	K7	0.030	0.090	1900
680		12.5 × 40	I9	0.021	0.063	2800	16 × 31.5	J7	0.032	0.095	1850	16 × 40	J9	0.027	0.081	2480
		16 × 25	J6	0.025	0.075	2600						18 × 35.5	K8	0.027	0.081	2200
		18 × 20	K5	0.030	0.090	2500						—	—	—	—	—
820		16 × 31.5	J7	0.021	0.063	2850	16 × 35.5	J8	0.029	0.086	2000	18 × 40	K9	0.026	0.077	2700
		18 × 25	K6	0.024	0.072	2800	18 × 31.5	K7	0.030	0.090	1900					
1000		16 × 35.5	J8	0.019	0.057	2900	—	—	—	—	—	—	—	—	—	
1200		16 × 40	J9	0.018	0.054	3400	18 × 40	K9	0.026	0.077	2700	—	—	—	—	—
		18 × 31.5	K7	0.020	0.060	3300						—	—	—	—	—
1500		18 × 35.5	K8	0.018	0.054	3400	—	—	—	—	—	—	—	—	—	
1800		18 × 40	K9	0.017	0.051	3500	—	—	—	—	—	—	—	—	—	

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