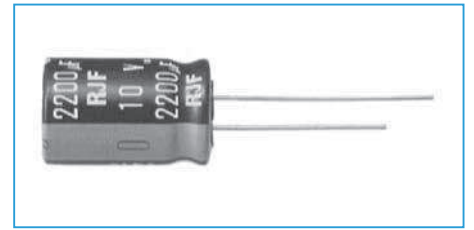
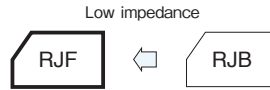


105°C Use, Miniature, High-Reliability, Extra Low Impedance Capacitors

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

- Higher ripple current and Lower impedance than RJB series.



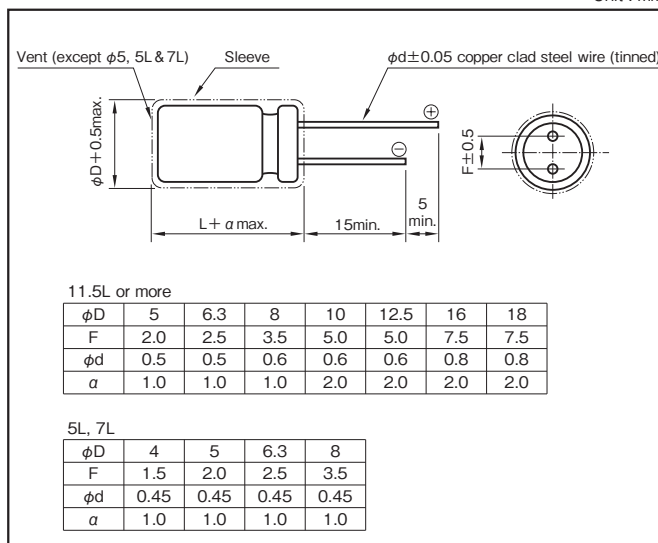
Marking color : White print on a black sleeve

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)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tanδ (max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.09</td> <td>0.08</td> </tr> </table> <p>0.02 is added to every 1000µF increase over 1000µF. (20°C,120Hz)</p>	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									
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																					
Characteristics at high and low temperature	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td rowspan="2">Impedance ratio (max.)</td> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <p>(120Hz)</p>	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
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																					
Endurance (105°C) (Applied ripple current)	<table border="1"> <tr> <td>Test time</td> <td>5L &amp; 7L : 1000 hours φ5 &amp; φ6.3 : 2000 hours (63 to 100WV:5000 hours) φ8 &amp; φ10 : 3000 hours (63 to 100WV:7000 hours) φ12.5 to φ18 : 5000 hours (63 to 100WV:10000 hours)</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Percentage of capacitance change</td> <td>Within ±25% of initial value</td> </tr> <tr> <td>Tangent of the loss angle</td> <td>200% or less of the initial specified value</td> </tr> </table>	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																					
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)	<table border="1"> <tr> <td>Test time</td> <td>1000 hours</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Percentage of capacitance change</td> <td>Within ±25% of initial value</td> </tr> <tr> <td>Tangent of the loss angle</td> <td>200% or less of the initial specified value</td> </tr> </table> <p>Voltage application treatment</p>	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																					
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																													
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)																													

Outline Drawing

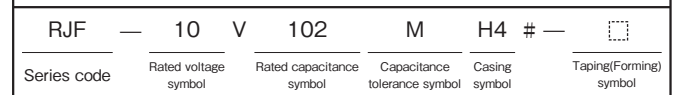
Unit : mm



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

Part numbering system (example : 10V1000µF)



- 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	
Rated capacitance (μF)	φD×L (mm)															
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	0.045	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	
Rated capacitance (μF)	φD×L (mm)															
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	0.96	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 φDxL (mm)	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (mm)	Casing symbol	Impedance (Ω max.)		Rated ripple current (mA rms)	Case φDxL (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						
						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

ALUMINUM

MINIATURE ALUMINUM

105°C