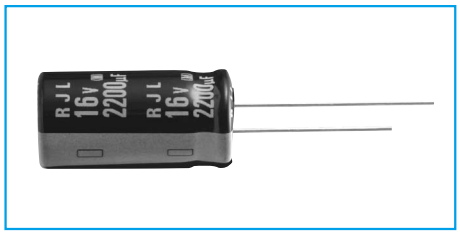
105°C Use, Miniature, Long Life, extra Low Impedance Capacitors

GREEN CAP | Low Impedance | 105°C 10000hours | Anti-cleaning solvent

- Long life than RJF Series.
- Guarantees 4000 to 10000 hours at 105℃.

Long life

RJL ⇦ 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)	Less than 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	63	100
tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

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	63	100
Impedance ratio (max.)	Z−25℃/Z+20℃	4	3	2	2	2	2	2	2
	Z−40℃/Z+20℃	8	6	4	3	3	3	3	3

(120Hz)

Endurance (105℃) (Applied ripple current)

Test time	φ5, φ6.3 : 5000 hours (6.3～10WV : 4000 hours) φ8, φ10 : 7000 hours (6.3～10WV : 6000 hours) φ12.5, φ16 : 10000 hours (6.3～10WV : 8000 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℃)

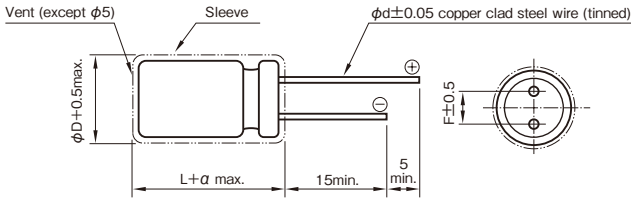
Test time	1000 hours
Leakage current	The initial specified value or less
Percentage of capacitance change	Within ±25% of initial value
Tangent of the loss angle	200% or less of initial specified value

Voltage application treatment

Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

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
to 33	0.42	0.70	0.90	1.00
47 to 270	0.50	0.73	0.92	1.00
330 to 680	0.55	0.77	0.94	1.00
820 to 1800	0.60	0.80	0.96	1.00
2200 to 6800	0.70	0.85	0.98	1.00

Part numbering system (example : 10V1000μF)

RJL	—	10	V	102	M	H4	#
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Additional symbol

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

Standard Ratings

Rated voltage (V) / Item / Rated capacitance (μF)	6.3					10					16				
	Case	Casing symbol	Impedance (Ω)		Rated ripple current	Case	Casing symbol	Impedance (Ω)		Rated ripple current	Case	Casing symbol	Impedance (Ω)		Rated ripple current
	φD×L (mm)		20℃	−10℃	(mArms)	φD×L (mm)		20℃	−10℃	(mArms)	φD×L (mm)		20℃	−10℃	(mArms)
56	—	—	—	—	—	—	—	—	—	—	5×11.5	E3	0.58	2.3	210
100	—	—	—	—	—	5×11.5	E3	0.58	2.3	210	—	—	—	—	—
120	—	—	—	—	—	—	—	—	—	—	6.3×11.5	F3	0.22	0.87	340
150	5×11.5	E3	0.58	2.3	210	—	—	—	—	—	—	—	—	—	—
220	—	—	—	—	—	6.3×11.5	F3	0.22	0.87	340	—	—	—	—	—
330	6.3×11.5	F3	0.22	0.87	340	—	—	—	—	—	8×12	G3	0.13	0.52	640
470	—	—	—	—	—	8×12	G3	0.13	0.52	640	8×15	G4	0.087	0.35	840
560	8×12	G3	0.13	0.52	640	8×15	G4	0.087	0.35	840	—	—	—	—	—
680	8×12	G3	0.13	0.52	640	10×12.5	H3	0.080	0.32	865	10×16	H4	0.060	0.24	1210
820	10×12.5	H3	0.080	0.32	865	10×16	H4	0.060	0.24	1210	10×20	H5	0.046	0.18	1400
1000	8×15	G4	0.087	0.35	840	10×16	H4	0.060	0.24	1210	10×20	H5	0.046	0.18	1400
1200	10×16	H4	0.060	0.24	1210	10×20	H5	0.046	0.18	1400	10×25	H6	0.042	0.17	1650
1500	10×20	H5	0.046	0.18	1400	10×25	H6	0.042	0.17	1650	12.5×20	I5	0.035	0.12	1900
1800	10×25	H6	0.042	0.17	1650	12.5×20	I5	0.035	0.12	1900	12.5×25	I6	0.027	0.089	2230
2200	10×25	H6	0.042	0.17	1650	12.5×20	I5	0.035	0.12	1900	12.5×25	I6	0.027	0.089	2230
2700	—	—	—	—	—	—	—	—	—	—	16×20	J5	0.027	0.078	2530
3300	12.5×20	I5	0.035	0.12	1900	12.5×25	I6	0.027	0.089	2230	12.5×35	I8	0.020	0.065	2880
3900	—	—	—	—	—	—	—	—	—	—	16×25	J6	0.021	0.060	2930
4700	12.5×30	I7	0.024	0.078	2650	12.5×35	I8	0.020	0.065	2880	—	—	—	—	—
5600	16×20	J5	0.027	0.078	2530	16×25	J6	0.021	0.060	2930	—	—	—	—	—
6800	16×25	J6	0.021	0.060	2930	—	—	—	—	—	—	—	—	—	—

Rated voltage (V) / Item / Rated capacitance (μF)	25					35					50				
	Case	Casing symbol	Impedance (Ω)		Rated ripple current	Case	Casing symbol	Impedance (Ω)		Rated ripple current	Case	Casing symbol	Impedance (Ω)		Rated ripple current
	φD×L (mm)		20℃	−10℃	(mArms)	φD×L (mm)		20℃	−10℃	(mArms)	φD×L (mm)		20℃	−10℃	(mArms)
10	—	—	—	—	—	—	—	—	—	—	5×11.5	E3	1.50	6.0	100
22	—	—	—	—	—	—	—	—	—	—	5×11.5	E3	0.70	2.8	180
33	—	—	—	—	—	5×11.5	E3	0.58	2.3	210	—	—	—	—	—
47	5×11.5	E3	0.58	2.3	210	—	—	—	—	—	—	—	—	—	—
56	—	—	—	—	—	6.3×11.5	F3	0.22	0.87	340	6.3×11.5	F3	0.30	1.2	295
100	6.3×11.5	F3	0.22	0.87	340	—	—	—	—	—	8×12	G3	0.17	0.68	555
120	—	—	—	—	—	—	—	—	—	—	8×15	G4	0.12	0.48	730
150	—	—	—	—	—	8×12	G3	0.13	0.52	640	10×12.5	H3	0.12	0.48	760
180	—	—	—	—	—	8×15	G4	0.087	0.35	870	8×20	G5	0.091	0.36	910
220	8×12	G3	0.13	0.52	640	8×15	G4	0.087	0.35	870	10×16	H4	0.084	0.34	1050
270	—	—	—	—	—	8×20	G5	0.069	0.27	1050	10×20	H5	0.060	0.24	1220
330	8×15	G4	0.087	0.35	840	10×16	H4	0.060	0.24	1210	10×25	H6	0.055	0.22	1440
470	10×16	H4	0.060	0.24	1210	10×20	H5	0.046	0.18	1400	12.5×20	I5	0.045	0.15	1660
560	—	—	—	—	—	10×25	H6	0.042	0.17	1650	12.5×25	I6	0.034	0.11	1950
680	10×20	H5	0.046	0.18	1400	12.5×20	I5	0.035	0.12	1900	12.5×25	I6	0.034	0.11	1950
820	10×25	H6	0.042	0.17	1650	12.5×25	I6	0.027	0.089	2230	12.5×30	I7	0.030	0.10	2310
1000	12.5×20	I5	0.035	0.12	1900	12.5×25	I6	0.027	0.089	2230	16×25	J6	0.025	0.075	2555
1200	12.5×25	I6	0.027	0.089	2230	16×20	J5	0.027	0.078	2530	—	—	—	—	—
1500	12.5×25	I6	0.027	0.089	2230	12.5×35	I8	0.020	0.065	2880	—	—	—	—	—
1800	16×20	J5	0.027	0.078	2530	16×25	J6	0.021	0.060	2930	—	—	—	—	—
2200	12.5×35	I8	0.020	0.065	2880	—	—	—	—	—	—	—	—	—	—
2700	16×25	J6	0.021	0.060	2930	—	—	—	—	—	—	—	—	—	—

Rated voltage (V) / Item / Rated capacitance (μF)	63					100				
	Case	Casing symbol	Impedance (Ω)		Rated ripple current	Case	Casing symbol	Impedance (Ω)		Rated ripple current
	φD×L (mm)		20℃	−10℃	(mArms)	φD×L (mm)		20℃	−10℃	(mArms)
6.8	—	—	—	—	—	5×11.5	E3	2.3	9.3	55
15	5×11.5	E3	2.3	9.3	55	6.3×11.5	F3	1.2	5.0	115
27	6.3×11.5	F3	1.2	5.0	115	8×12	G3	0.63	2.8	232
47	—	—	—	—	—	10×12.5	H3	0.43	1.8	288
56	8×12	G3	0.63	2.8	232	8×20	G5	0.33	1.6	362
68	—	—	—	—	—	10×16	H4	0.31	1.5	357
82	8×15	G4	0.45	2.1	300	10×20	H5	0.21	0.94	466
100	—	—	—	—	—	10×25	H6	0.20	0.84	531
120	10×16	H4	0.31	1.5	357	12.5×20	I5	0.16	0.64	690
180	10×20	H5	0.21	0.94	466	12.5×25	I6	0.120	0.45	784
220	10×25	H6	0.20	0.84	531	16×20	J5	0.091	0.38	1040
270	12.5×20	I5	0.16	0.64	690	16×25	J6	0.073	0.27	1250
330	12.5×25	I6	0.12	0.45	784	—	—	—	—	—
390	16×20	J5	0.091	0.38	1040	—	—	—	—	—
470	16×20	J5	0.091	0.38	1040	—	—	—	—	—
560	16×25	J6	0.073	0.27	1250	—	—	—	—	—

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

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