

105°C Use,miniature,Hi-Reliability, Low impedance Capacitors

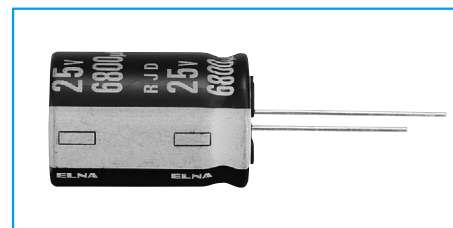
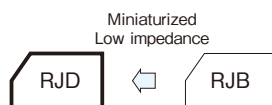
GREEN
CAP

Low
Impedance

105°C
5000hours

Anti-
cleaning
solvent

- Smaller and higher ripple current than RJB series.
- Guarantees 5000 hours at 105°C.
($\phi 5$ to 6.3:2000 hours: $\phi 8$ to 10:3000 hours)



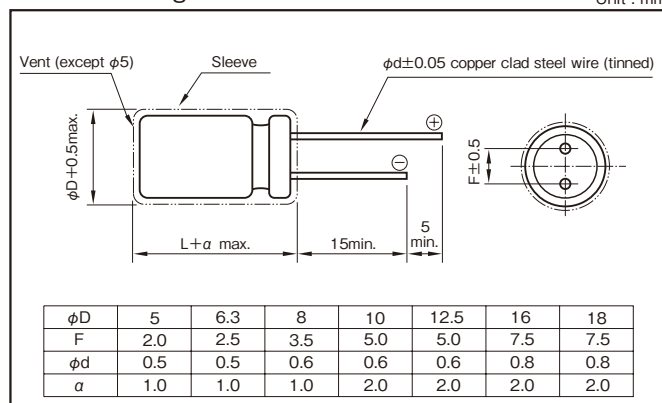
Marking color : White print on a black sleeve

Specifications

Item	Performance						
Category temperature range (°C)	-55 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
	tanδ (max.)		0.22	0.19	0.16	0.14	0.12
	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
	Impedance ratio (max.)	Z-55°C/Z+20°C	3	3	3	3	3
(120Hz)							
Endurance (105°C) (Applied ripple current)	Test time		φ5 to 6.3:2000 hours φ8 to 10:3000 hours φ12.5 to 18:5000 hours				
	Leakage current		The initial specified value or less				
	Percentage of capacitance change		Within ±20% of initial value				
	Tangent of the loss angle		200% or less of the initial specified value				
Shelf life (105°C)	Test time : 1000 hours ; other items are the same as those for the endurance. Voltage application treatment						
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)	50 · 60	120	300	1k	10k · 100k
to 56	0.20	0.30	0.50	0.80	1
68 to 330	0.55	0.65	0.75	0.85	1
390 to 1000	0.70	0.75	0.80	0.90	1
1200 to 18000	0.80	0.85	0.90	0.95	1

Part numbering system (example : 6.3V1000 μF)

RJD	—	6	V	103	M	J7	#
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Additional symbol

Casing Symbol

Size $\phi D \times L$ (mm)	Casing Symbol	Size $\phi D \times L$ (mm)	Casing Symbol	Size $\phi D \times L$ (mm)	Casing Symbol	Size $\phi D \times L$ (mm)	Casing Symbol	Size $\phi D \times L$ (mm)	Casing Symbol
5 x 11.5	E3	10 x 12.5	H3	12.5 x 15	I4	16 x 16	J4	18 x 16	K4
6.3 x 11.5	F3	10 x 16	H4	12.5 x 20	I5	16 x 20	J5	18 x 20	K5
6.3 x 15	F4	10 x 20	H5	12.5 x 25	I6	16 x 25	J6	18 x 25	K6
8 x 12	G3	10 x 25	H6	12.5 x 30	I7	16 x 31.5	J7	18 x 31.5	K7
8 x 15	G4	10 x 30	H7	12.5 x 35	I8	16 x 35.5	J8	18 x 35.5	K8
8 x 20	G5	-	-	12.5 x 40	I9	16 x 40	J9	18 x 40	K9

Standard Ratings

Rated voltage(V) Item	6.3				10				16			
	Case	Impedance (Ω_{\max} / 100kHz)		Rated ripple current	Case	Impedance (Ω_{\max} / 100kHz)		Rated ripple current	Case	Impedance (Ω_{\max} / 100kHz)		Rated ripple current
	$\phi \times L$ (mm)	20°C	-10°C	mArms	$\phi \times L$ (mm)	20°C	-10°C	mArms	$\phi \times L$ (mm)	20°C	-10°C	mArms
22	—	—	—	—	—	—	—	—	5×11.5	0.50	1.0	182
33	—	—	—	—	—	—	—	—	5×11.5	0.50	1.0	182
47	—	—	—	—	—	—	—	—	5×11.5	0.50	1.0	182
82	—	—	—	—	—	—	—	—	5×15	0.46	0.92	237
100	—	—	—	—	5×11.5	0.50	1.0	182	6.3×11.5	0.25	0.50	295
150	5×11.5	0.50	1.0	182	—	—	—	—	6.3×11.5	0.25	0.50	295
180	—	—	—	—	6.3×11.5	0.25	0.50	295	6.3×15	0.18	0.36	432
220	—	—	—	—	6.3×11.5	0.25	0.50	295	6.3×15	0.18	0.36	432
330	6.3×11.5	0.25	0.50	295	6.3×15	0.18	0.36	432	8×12	0.117	0.234	567
390	—	—	—	—	—	—	—	—	8×12	0.117	0.234	567
470	6.3×15	0.18	0.36	432	8×12	0.117	0.234	567	8×15	0.085	0.170	733
560	8×12	0.117	0.234	567	8×12	0.117	0.234	567	10×12.5	0.090	0.180	764
680	8×12	0.117	0.234	567	—	—	—	—	8×20	0.065	0.130	996
820	—	—	—	—	8×15	0.085	0.170	733	8×15	0.085	0.170	733
1000	8×15	0.085	0.170	733	10×12.5	0.090	0.180	764	10×12.5	0.090	0.180	764
1200	10×12.5	0.090	0.180	764	8×20	0.065	0.130	996	8×20	0.065	0.130	996
1500	10×16	0.068	0.136	1060	10×12.5	0.090	0.180	764	10×16	0.068	0.136	1060
1800	12.5×15	0.062	0.124	1210	10×16	0.068	0.136	1060	10×20	0.052	0.104	1230
2200	10×20	0.045	0.090	1450	8×20	0.065	0.130	996	10×20	0.052	0.104	1230
2700	10×25	0.045	0.090	1450	10×16	0.068	0.136	1060	10×25	0.045	0.090	1450
3300	12.5×20	0.038	0.076	1700	10×20	0.052	0.104	1230	10×25	0.045	0.090	1450
3900	12.5×25	0.030	0.060	1950	12.5×15	0.062	0.124	1210	10×30	0.035	0.070	1830
4700	12.5×25	0.030	0.060	1950	10×20	0.052	0.104	1230	—	—	—	—
5600	16×20	0.029	0.058	2230	10×25	0.045	0.090	1450	10×30	0.035	0.070	1830
6800	12.5×35	0.022	0.044	2620	10×25	0.045	0.090	1450	12.5×20	0.038	0.076	1700
8200	12.5×40	0.017	0.034	3160	12.5×20	0.038	0.076	1700	16×16	0.043	0.086	1700
10000	16×25	0.022	0.044	2650	12.5×25	0.030	0.060	1950	12.5×25	0.030	0.060	1950
12000	18×25	0.020	0.040	3000	18×16	0.038	0.076	2010	18×16	0.038	0.076	2010
15000	18×35.5	0.015	0.030	3960	12.5×30	0.025	0.050	2330	12.5×30	0.025	0.050	2330
18000	18×40	0.014	0.028	4300	16×20	0.029	0.058	2230	16×20	0.029	0.058	2230
					—	—	—	—	12.5×35	0.022	0.044	2620
					12.5×30	0.025	0.050	2330	16×25	0.022	0.044	2650
					16×20	0.029	0.058	2230	18×20	0.028	0.056	2500
					—	—	—	—	16×25	0.022	0.044	2650
					12.5×35	0.022	0.044	2620	16×31.5	0.018	0.036	3210
					12.5×40	0.017	0.034	3160	18×25	0.020	0.040	3000
					16×25	0.022	0.044	2650	—	—	—	—
					16×31.5	0.018	0.036	3210	18×35.5	0.015	0.030	3960
					18×25	0.020	0.040	3000	—	—	—	—
					—	—	—	—	18×40	0.014	0.028	4300
					16×40	0.015	0.030	3880	—	—	—	—
					18×35.5	0.015	0.030	3960	—	—	—	—
					—	—	—	—	—	—	—	—
					18×40	0.014	0.028	4300	—	—	—	—
					—	—	—	—	—	—	—	—

Rated voltage(V) Item	25				35			
	Case	Impedance (Ω_{\max} / 100kHz)		Rated ripple current	Case	Impedance (Ω_{\max} / 100kHz)		Rated ripple current
	$\phi \times L$ (mm)	20°C	-10°C	mArms	$\phi \times L$ (mm)	20°C	-10°C	mArms
10	5×11.5	0.50	1.0	182	5×11.5	0.50	1.0	182
22	5×11.5	0.50	1.0	182	5×11.5	0.50	1.0	182
27	5×11.5	0.50	1.0	182	5×11.5	0.50	1.0	182
33	5×11.5	0.50	1.0	182	5×11.5	0.50	1.0	182
47	5×11.5	0.50	1.0	182	6.3×11.5	0.25	0.50	295
56	5×15	0.46	0.92	237	6.3×11.5	0.25	0.50	295
82	6.3×11.5	0.25	0.50	295	6.3×15	0.18	0.36	432
100	6.3×11.5	0.25	0.50	295	8×12	0.117	0.234	567
120	6.3×15	0.18	0.36	432	—	—	—	—
150	8×12	0.117	0.234	567	8×12	0.117	0.234	567
180	—	—	—	—	8×12	0.117	0.234	567
220	8×12	0.117	0.234	567	8×15	0.085	0.170	733
270	8×12	0.117	0.234	567	8×15	0.085	0.170	733
330	8×12	0.117	0.234	567	10×12.5	0.090	0.180	764
390	10×12.5	0.090	0.180	764	8×20	0.065	0.130	996
470	8×15	0.085	0.170	733	10×16	0.068	0.136	1060
560	8×15	0.085	0.170	733	8×20	0.065	0.130	996
680	10×16	0.068	0.136	1060	10×16	0.068	0.136	1060
820	10×16	0.068	0.136	1060	12.5×15	0.062	0.124	1210
1000	10×20	0.052	0.104	1230	10×25	0.045	0.090	1450
1200	12.5×15	0.062	0.124	1210	12.5×20	0.038	0.076	1700
1500	10×25	0.045	0.090	1450	10×30	0.035	0.070	1830
1800	12.5×20	0.038	0.076	1700	12.5×20	0.038	0.076	1700
2200	12.5×20	0.038	0.076	1700	12.5×25	0.030	0.060	1950
2700	10×30	0.035	0.070	1830	18×16	0.038	0.076	2010
3300	16×16	0.043	0.086	1700	12.5×30	0.025	0.050	2330
3900	12.5×25	0.030	0.060	1950	16×20	0.029	0.058	2230
4700	18×16	0.038	0.076	2010	12.5×35	0.022	0.044	2620
5600	12.5×30	0.025	0.050	2330	16×20	0.029	0.058	2230
6800	16×20	0.029	0.058	2230	12.5×40	0.017	0.034	3160
8200	—	—	—	—	16×25	0.022	0.044	2650
10000	—	—	—	—	18×20	0.028	0.056	2500
12000	12.5×35	0.022	0.044	2620	16×31.5	0.018	0.036	3210
15000	12.5×40	0.017	0.034	3160	18×25	0.020	0.040	3000
18000	16×25	0.022	0.044	2650	18×31.5	0.016	0.032	3660
22000	18×20	0.028	0.056	2500	—	—	—	—
27000	—	—	—	—	18×35.5	0.015	0.030	3960
33000	—	—	—	—	18×40	0.014	0.028	4300
39000	—	—	—	—	18×35.5	0.015	0.030	3960
47000	18×25	0.020	0.040	3000	18×40	0.014	0.028	4300
56000	18×35.5	0.015	0.030	3960	18×40	0.014	0.028	4300
68000	18×35.5	0.015	0.030	3960	18×40	0.014	0.028	4300
82000	—	—	—	—	18×40	0.014	0.028	4300
100000	18×40	0.014	0.028	4300	—	—	—	—

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

NOTE

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