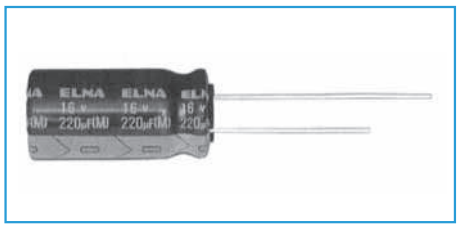
Low Leakage Current Capacitors

GREEN CAP

• Low leakage current (after 1 minute) : 0.006CV or 0.5 (μA).



Marking color : White print on a blue sleeve

Specifications

Item	Performance
Category temperature range (℃)	−40 to +85
Tolerance at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA)	Less than 0.006CV or 0.5 whichever is larger (after 1 minute) Less than 0.002CV or 0.3 whichever is larger (after 2 minutes), C : Rated capacitance (μF) ; V : Rated voltage (V) (20℃)
Tangent of loss angle (tanδ)	
Characteristics at high and low temperature	
Endurance (85℃) (Applied ripple current)	
Shelf life (85℃)	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)

Rated voltage (V)		6.3	10	16	25	35	50
tanδ (max.)	More than 1μF	0.20	0.17	0.13	0.10	0.10	0.08
	1μF or less	0.06	0.06	0.06	0.06	0.06	0.06

(20℃,120Hz)

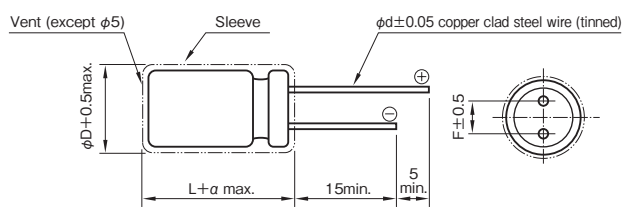
Rated voltage (V)		6.3	10	16	25	35	50
Impedance ratio (max.)	Z−25℃/Z+20℃	4	3	2	2	2	2
	Z−40℃/Z+20℃	8	6	4	4	3	3

(120Hz)

Test time	1000 hours
Leakage current	The initial specified value or less
Percentage of capacitance change	Within ±20% of initial value
Tangent of the loss angle	150% or less of the initial specified value

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	1.5			2.0 (φ10,16L or less : 1.5)			

Coefficient of Frequency for Rated Ripple Current

Rated voltage (V)	Frequency (Hz) / CV (μF×V)	50・60	120	1k	10k・100k
6.3 to 10	All CV value	0.8	1	1.1	1.2
16 to 25	≦1000	0.8	1	1.5	1.7
	1000<	0.8	1	1.2	1.3
35 to 50	All CV value	0.8	1	1.6	1.9

Part numbering system (example : 10V1000μF)

RLB	—	10	V	102	M	I6	#	—	⬚
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping(Forming) symbol

Casing symbol

Case φD×L (mm)	Casing symbol	Case φD×L (mm)	Casing symbol	Case φD×L (mm)	Casing symbol	Case φD×L (mm)	Casing symbol
5×11	E3	10×12.5	H3	12.5×20	I5	16×31.5	J7
6.3×11	F3	10×16	H4	12.5×25	I6	16×35.5	J8
8×11.5	G3	10×20	H5	16×25	J6	18×35.5	K8
						18×40	K9

Standard Ratings

Rated voltage (V) / Item / Rated capacitance (μF)	6.3 Case φD×L (mm)	6.3 Rated ripple current (mArms)	10 Case φD×L (mm)	10 Rated ripple current (mArms)	16 Case φD×L (mm)	16 Rated ripple current (mArms)	25 Case φD×L (mm)	25 Rated ripple current (mArms)	35 Case φD×L (mm)	35 Rated ripple current (mArms)	50 Case φD×L (mm)	50 Rated ripple current (mArms)
1	—	—	—	—	—	—	—	—	—	—	5×11	20
2.2	—	—	—	—	—	—	—	—	—	—	5×11	26
3.3	—	—	—	—	—	—	—	—	—	—	5×11	32
4.7	—	—	—	—	—	—	5×11	34	5×11	34	6.3×11	43
10	—	—	—	—	5×11	543	6.3×11	57	6.3×11	57	8×11.5	75
22	—	—	5×11	56	6.3×11	74	8×11.5	99	8×11.5	99	10×12.5	131
33	—	—	6.3×11	79	6.3×11	90	8×11.5	121	10×12.5	144	10×16	176
47	—	—	6.3×11	94	8×11.5	127	10×12.5	172	10×12.5	172	10×16	210
100	—	—	8×11.5	160	10×12.5	220	10×16	270	10×20	300	12.5×20	380
220	10×12.5	260	10×16	350	10×20	390	12.5×20	510	12.5×25	550	16×25	720
330	10×16	350	10×20	460	12.5×20	550	12.5×25	680	16×25	790	16×31.5	970
470	10×20	460	12.5×20	570	12.5×25	650	16×25	940	16×25	940	16×35.5	1210
1000	12.5×25	840	12.5×25	910	16×25	1210	16×35.5	1580	18×35.5	1690	—	—
2200	16×25	1440	16×31.5	1710	18×35.5	2200	—	—	—	—	—	—

(Note) Rated ripple current : 85℃, 120Hz

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.