

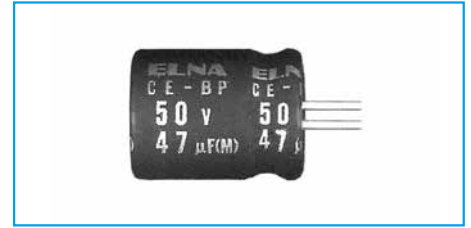
105°C Bipolar Capacitors

GREEN CAP Anti-cleaning solvent

• Guarantees 2000 hours at 105°C.



High temperature



Marking color : White print on a black sleeve

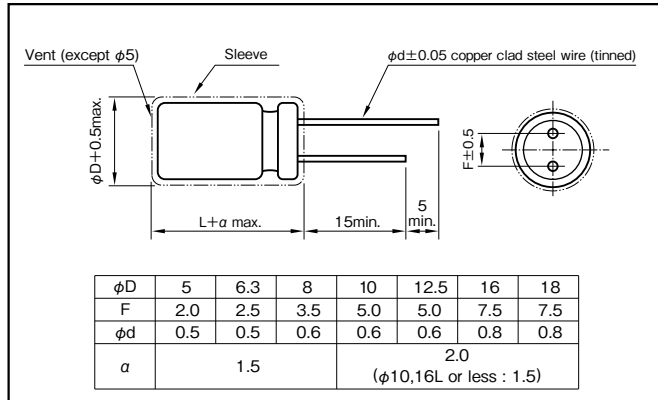
ALUMINUM

Specifications

Item	Performance						
Category temperature range (°C)	-40 to +105						
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)						
Leakage current (µA)	Less than 0.03CV + 3 (after 5 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
	tan δ (max.)	0.4	0.3	0.2	0.2	0.16	0.14
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
	Impedance ratio (max.)	Z-25°C/Z+20°C	5	4	3	2	2
0.5 for -25°C, 1 for -40°C are added to every 1000µF increase over 1000µF (120Hz)							
Endurance (105°C) (Applied ripple current)	Test time	2000 hours (φ5 to φ8 : 1000 hours) with the polarity inverted every 250 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 : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4						
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)						

Outline Drawing

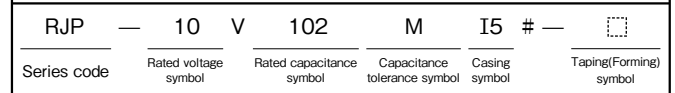
Unit : mm



Coefficient of Frequency for Rated Ripple Current

Rated voltage (V) \ Frequency (Hz)	50 · 60	120	1k	10k · 100k
6.3 to 16	0.8	1	1.1	1.2
25 to 35	0.8	1	1.5	1.7
50	0.8	1	1.6	1.9

Part numbering system (example : 10V1000µF)



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	J6	18×35.5	K8
8×11.5	G3	10×20	H5	16×25			

MINIATURE ALUMINUM

105°C

Standard Ratings

Rated capacitance (µF) \ Rated voltage (V) Item	6.3		10		16		25		35		50	
	Case φD × L (mm)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Rated ripple current (mA _{rms})	Case φD × L (mm)	Rated ripple current (mA _{rms})
1	—	—	—	—	—	—	—	—	—	—	5 × 11	12
2.2	—	—	—	—	—	—	—	—	—	—	5 × 11	18
3.3	—	—	—	—	—	—	—	—	—	—	5 × 11	22
4.7	—	—	—	—	—	—	—	—	—	—	5 × 11	22
10	—	—	—	—	5 × 11	30	5 × 11	34	5 × 11	30	6.3 × 11	37
22	—	—	5 × 11	42	5 × 11	40	6.3 × 11	55	6.3 × 11	51	8 × 11.5	63
33	5 × 11	46	5 × 11	45	5 × 11	49	6.3 × 11	56	8 × 11.5	72	8 × 11.5	77
47	5 × 11	54	5 × 11	54	6.3 × 11	67	6.3 × 11	67	8 × 11.5	86	10 × 12.5	105
100	6.3 × 11	90	6.3 × 11	96	8 × 11.5	110	8 × 11.5	110	10 × 16	160	10 × 20	190
220	8 × 11.5	150	8 × 11.5	150	10 × 12.5	195	10 × 16	215	12.5 × 20	290	12.5 × 25	340
330	8 × 11.5	185	10 × 16	240	10 × 16	265	12.5 × 20	320	12.5 × 20	350	16 × 25	460
470	10 × 12.5	260	10 × 16	290	10 × 20	345	12.5 × 20	380	12.5 × 25	465	16 × 31.5	590
1000	10 × 20	460	12.5 × 20	510	12.5 × 25	605	16 × 25	670	16 × 31.5	805	—	—
2200	12.5 × 25	820	16 × 25	910	16 × 31.5	1070	18 × 35.5	1140	—	—	—	—
3300	16 × 25	1110	16 × 31.5	1200	18 × 35.5	1400	—	—	—	—	—	—
4700	16 × 31.5	1430	18 × 35.5	1520	—	—	—	—	—	—	—	—
6800	18 × 35.5	1830	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C , 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.