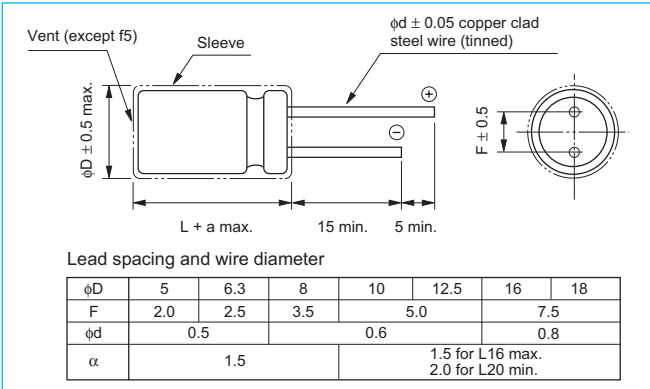


RE2 Miniature Aluminum Electrolytic Capacitors

Series RE2 Miniature Standard Product

- These capacitors are several sizes smaller than previous ELNA RE general-purpose capacitors.
- Rated voltage is extended to 450 V.
- We guarantee operation for 2000 hours at 85°C.

Outline Drawing



Photo



Unit: mm

Specifications

No.	Item	Performance
1	Temperature range (°C)	-40 to +85
2	Leakage current (μA)	Rated voltage (V) 6.3 to 100 160 to 450
		— Less than 0.01 CV or 3 whichever is larger (after two minutes) Less than 0.06 CV +10 (after two minutes)
		C: Capacitance (μF), V: Voltage (V)
3	Capacitance tolerance (%)	±20 (20°C, 120 Hz)
4	Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10 16 25 35 50 63 100 160 200 250 350 400 450
		tan δ 0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08 0.12 0.12 0.15 0.15 0.20 0.23
		0.02 is added to each 1000 μF increase over 1000 μF.
5	Stability at low temperature	Rated voltage (V) 6.3 10 16 25 35 50 63 100 160 200 250 350 400 450
		Impedance ratio Z-25°C/Z+20°C 4 3 2 3 6 Z-40°C/Z+20°C 8 6 4 3 8 —
		(120 Hz)
6	Endurance (85°C) (Applied ripple current)	Test time 2000 hrs
		Leakage current Initial specified value or less
		Change in capacitance Within ±20% of initial value
		tan δ 200% or less of initial specified value
7	Max. storage temp. (85°C)	Test time 1000 hrs. Others have same as endurance in No. 6, Voltage application treatment.
8	Applicable Standards	JIS C 5101-1, 5101-4 1998 (IEC 60384-1 1992, 60384-4 1985)

Coefficients of Frequency for Ripple Current

Rated Voltage (V)	Frequency (Hz)	50 • 60	120	1 k	10 k	100 k
	CV (μF x V)					
6.3 to 16	All CV value	0.8	1	1.1	1.2	1.2
	≤ 1000	0.8	1	1.5	1.7	1.7
25 to 35	1000 <	0.8	1	1.2	1.3	1.3
	≤ 1000	0.8	1	1.6	1.9	1.9
50 to 100	≤ 1000	0.8	1	1.2	1.3	1.3
	1000 <	0.8	1	1.2	1.3	1.3
160 to 450	All CV value	0.8	1	1.3	1.5	1.6

Coefficients of Temperature for Ripple Current

Temperature (°C)	+70 or less	+85
Coefficients	1.35	1

RE2 Miniature Aluminum Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

WV(V) Cap.(µF)	6.3	10	16	25	35	50	63	100
0.1						5 x 11		5 x 11 *
0.22						5 x 11		5 x 11
0.33						5 x 11		5 x 11
0.47						5 x 11		5 x 11
1						5 x 11		5 x 11
2.2						5 x 11		5 x 11
3.3						5 x 11		5 x 11
4.7				5 x 11	5 x 11	5 x 11	5 x 11	5 x 11
10			5 x 11	5 x 11	5 x 11	5 x 11	5 x 11	6.3 x 11
22	* 5 x 11	5 x 11	5 x 11	5 x 11	5 x 11	5 x 11	6.3 x 11	8 x 11.5
33	5 x 11	5 x 11	5 x 11	5 x 11	5 x 11	6.3 x 11	6.3 x 11	10 x 12.5
47	5 x 11	5 x 11	5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 16
100	5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	12.5 x 20
220	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	10 x 20	16 x 25
330	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	16 x 25
470	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 31.5
1000	10 x 12.5	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	
2200	12.5 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5		
3300	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5			
4700	16 x 25	16 x 25	16 x 31.5	18 x 35.5				
6800	16 x 25	16 x 31.5	18 x 35.5					
10000	16 x 31.5	18 x 35.5						
15000	18 x 35.5							

* Beginning of Parts No. for Case size 5x11, read "RE3".

WV(V) Cap.(µF)	160	200	250	350	400	450
0.47	6.3 x 11	6.3 x 11	6.3 x 11	6.3 x 11		
1	6.3 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5
2.2	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16
3.3	8 x 11.5	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 20
4.7	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20
10	10 x 12.5	10 x 16	10 x 20	10 x 20	12.5 x 20	12.5 x 25
22	10 x 20	10 x 20	12.5 x 25	12.5 x 25	16 x 25	16 x 31.5
33	12.5 x 20	12.5 x 25	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5
47	12.5 x 25	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5	
100	16 x 25	16 x 31.5	18 x 35.5			
220	18 x 35.5	18 x 40				