

V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

EL Long Life Assurance
Series

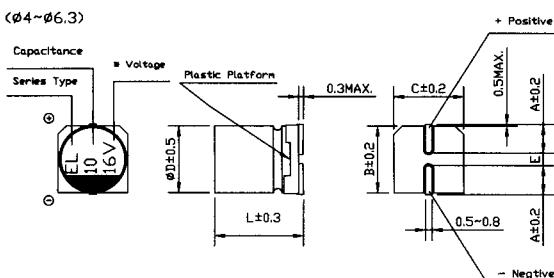


- Chip type, with load life of 2000 hours, temperature range up to +105°C.
- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

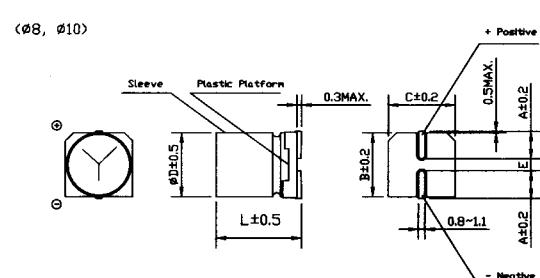
◆ Specifications

Items	Performance Characteristics						
Operating Temperature Range	-55~+105°C						
Voltage Range	6.3~50V						
Capacitance Range	0.1~1000μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3μA, whichever is greater.						
Tan δ	Measurement frequency: 120Hz, Temperature: 20°C						
	Rated voltage(V)	6.3	10	16	25	35	50
	Tan δ (max)	0.28	0.24	0.20	0.16	0.13	0.12
Stability at Low Temperature	Measurement frequency: 120Hz						
	Rated voltage(V)	6.3	10	16	25	35	50
	Impedance ratio	Z-25°C/Z+20°C	3	3	2	2	2
	ZT/Z20(max)	Z-40°C/Z+20°C	8	5	4	3	3
Load Life	After 2000 hours' application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at right				Capacitance Change	Within ± 25% of initial value	
					Leakage Current	Initial specified value or less	
					Tan δ	200% or less of initial specified value	
Self Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.						
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristics requirements listed at right.				Capacitance Change	Within ± 10% of initial value	
					Tan δ	Initial specified value or less	
					Leakage Current	Initial specified value or less	
Applicable Standards	JIS C-5141 and JIS C-5102						

◆ Chip Type



* Voltage mark for 6.3V is [6V]



(mm)

ΦD×L	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×10.5	10×10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10.5	10.5

EL Series

• Dimensions

Cap (μ F)	WV	6.3	10	16	25	35	50
		0J	1A	1C	1E	1V	1H
0.1	0R1						4x5.8 0.7
0.22	R22						4x5.8 1.6
0.33	R33						4x5.8 2.5
0.47	R47						4x5.8 3.5
1	010						4x5.8 7
2.2	2R2						4x5.8 11
3.3	3R3						4x5.8 13
4.7	4R7				4x5.8 13	4x5.8 14	5x5.8 16
10	100			4x5.8 18	5x5.8 20	5x5.8 21	6.3x5.8 24
22	220	4x5.8 22	5x5.8 25	5x5.8 27	6.3x5.8 36	6.3x5.8 38	6.3x5.8 32
33	330	5x5.8 27	5x5.8 30	6.3x5.8 40	6.3x5.8 44	6.3x5.8 42	6.3x7.7 60
47	470	5x5.8 33	6.3x5.8 41	6.3x5.8 48	6.3x5.8 48	6.3x5.8 49	6.3x7.7 63
100	101	6.3x5.8 50	6.3x5.8 53	6.3x5.8 60	6.3x7.7 91	8x10.5 130	8x10.5 140
150	151	6.3x5.8 55	6.3x7.7 105	6.3x7.7 95	8x10.5 140	8x10.5 155	10x10.5 315
220	221	6.3x7.7 100	6.3x7.7 105	6.3x7.7 105	8x10.5 175	10x10.5 315	
330	331	6.3x7.7 105	8x10.5 196	8x10.5 196	10x10.5 315		
470	471	8x10.5 210	8x10.5 210	10x10.5 315			
680	681	8x10.5 210	10x10.5 315	10x10.5 315			
1000	102	10x10.5 315	10x10.5 315				Case size Allowable ripple

Allowable ripple (mA rms) at 105°C 120Hz

• Frequency coefficient of allowable ripple current

Frequency Cap. (μ F)	50Hz	120Hz	300Hz	1kHz	10kHz~
~47	0.70	1.00	1.17	1.36	1.50
100~1000	0.85	1.00	1.08	1.20	1.30