

Aluminum Electrolytic Capacitor
Type ELL

△ Features

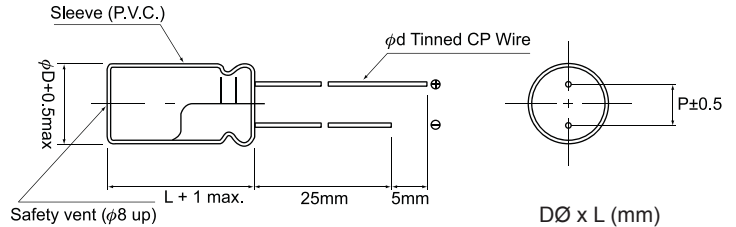
- Low Leakage current 85°C Series
- Low leakage current for timing
- Guaranteed long life (2,000 hours at 85° C)

△ Applications

- Suitable for use with high reliability equipment in the medical, telecom and consumer industry.



△ Dimensions



	5	6.3	8	10	13	16	18
Dø							
P	2	2.5	3.5	5	5	7.5	7.5
ød	0.5		0.6			0.8	
α	1				1.5		

△ Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 + 85°C								
Rated Voltage	6.3V ~ 100V								
Capacitance Range	0.1 ~ 10,000 μF								
Capacitance Tolerance	±20% (120Hz, 20°C)								
Leakage Current	0.002CV or 4 μA, whichever is greater after 2 minutes application of rated voltage.								
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Tan δ (max.)	0.21	0.17	0.14	0.12	0.12	0.10	0.08	0.08
Temperature Characteristics (120Hz)	Impedance Ratio / Stability at Low Temperature								
	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Z (-25°C) / Z (20°C)	3	2	2	1.5	1.5	1.5	1.5	1.5
	Z (-40°C) / Z (20°C)	5	4	3	2	2	2	2	2
Load Life	After 2,000 hours application of WV at 85°C, capacitor shall meet the characteristics requirements.								
	Capacitance change	Within ±15% of initial value							
	Tan δ	150% or less of initial specified value							
Shelf Life	Leakage current: Initial specified value or less								
	After leaving capacitors under no load at 85°C for 1,000 hours and applying voltage according to JIS C5102 and C5141, they meet the specified value for load life characteristics listed above.								

NOTE: Part Numbering System

(1) (2) (3) (4)
ELL 106 M 1H

- 1 Series
- 2 Capacitance
- 3 Tolerance



Fixed Component Capacitors

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Δ Dimensions

Dφ x L (mm)

WV(SV)	6.3 (10)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (75)		100 (125)	
Cap (μF)																
0.1-0.47												5 x 11				5 x 11
1												5 x 11	10			5 x 11 19
2.2												5 x 11	23			5 x 11 28
3.3												5 x 11	40			5 x 11 45
4.7							5 x 11	45				5 x 11	45			5 x 11 50
10					5 x 11	55	5 x 11	70				5 x 11	70	6.3 x 11	75	8 x 11 90
22					5 x 11	85	5 x 11	100	6.3 x 11	110	6.3 x 11	110	8 x 11	115	10 x 12	136
33					5 x 11	100	6.3 x 11	140	6.3 x 11	140	8 x 11	165	8 x 11	170	10 x 16	180
47			5 x 11	110	6.3 x 11	140	6.3 x 11	170	8 x 11	190	8 x 11	190	10 x 12	200	10 x 20	220
100			6.3 x 11	180	8 x 11	230	8 x 11	280	10 x 12	300	10 x 16	320	10 x 20	330	13 x 20	370
220			8 x 11	310	10 x 12	370	10 x 16	400	10 x 20	440	13 x 20	490	13 x 20	550	16 x 25	580
330			10 x 12	400	10 x 16	420	10 x 20	490	13 x 20	550	13 x 20	600	13 x 25	710	16 x 32	730
470	10 x 12	390	10 x 16	530	10 x 20	550	13 x 20	660	13 x 25	680	16 x 25	760	16 x 25	850	18 x 36	910
1000	10 x 20	650	13 x 20	810	13 x 25	910	16 x 25	1010	16 x 25	1100	16 x 32	1140	18 x 36	1330		
2200	13 x 25	1060	16 x 25	1200	16 x 25	1300	16 x 36	1440	18 x 36	1580						
3300	16 x 25	1270	16 x 32	1420	16 x 36	1550	18 x 40	1720								
4700	16 x 32	1500	16 x 36	1650	18 x 36	1820										
6800	18 x 36	1760	18 x 36	1890												
10000	18 x 40	1900														
															Case size	Ripple

Ripple current (mA) at 85°C 120Hz