

LL Series

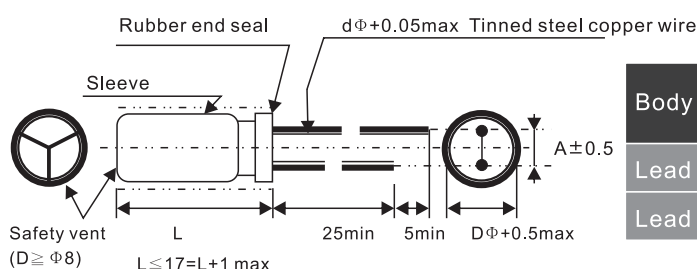
- 105°C, 2000 hours standard series (紋波疊加)



• SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	- 40 to +105°C								
Rated Voltage Range	6.3v to 100Vdc								
Capacitance Tolerance	± 20% (M) (at 20°C , 120Hz)								
Leakage Current	I=0.002CV or 0.4 μA , whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C , after 2 minutes)								
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	100V
	tan δ (Max.)	0.22	0.17	0.16	0.14	0.12	0.10	0.09	0.08
For capacitance > 1000μF and 2% per another 1000μF (at 20°C , 120Hz)									
Low Temperature Characteristics	Impedance ration max at 120Hz								
	Working voltage	6.3v	10v	16v	25v	35v	50v	63v	100v
	Z-25°C/ Z+20°C	6	5	5	4	4	4	4	4
Z-40°C/ Z+20°C	10	8	6	4	4	3	3	3	
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 2000 hours at 105°C								
	Capacitance change	≤ ±20% of the initial value							
	DF (tan δ)	≤ 200 % of the initial specified value							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.								
	Capacitance change	≤ ±20% of the initial value							
	DF (tan δ)	≤ 200 % of the initial specified value							
Ripple Current Multiplier	Leakage current ≤ The initial specified value								
	Temperature coefficient								
	Temperature(°C)	~55	60	70	85	105			
	Factor	2.25	2.15	2.00	1.75	1.00			
	Frequency coefficient								
	cap	freq	60	120	1k	10k	100k		
~100		0.70	1.00	1.55	1.75	2.00			
100~1000		0.75	1.00	1.30	1.35	1.35			
1000up		0.80	1.00	1.12	1.15	1.15			

• Diagram: (Unit: mm)

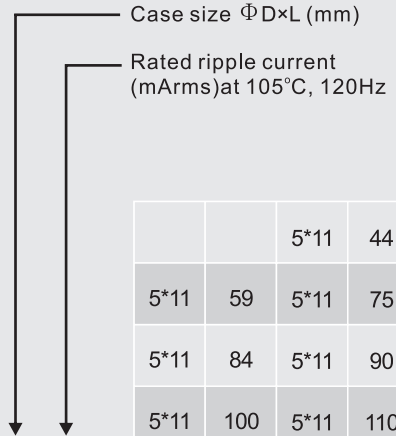


Body Dia ΦD	5	6	8	10	13		16	18
	L ≤ 21		L ≥ 25					
Lead Dia Φd	0.5		0.6		0.6	0.8	0.8	0.8
Lead Space A	2	2.5	3.5	5		7.5		7.5/10



● STANDARD RATING

$\mu F \backslash V_{dc}$	6.3		10		16		25		35		50		63		100	
0.1											5*11	1.3			5*11	2.6
0.22											5*11	2.9			5*11	5.8
0.33											5*11	4.4			5*11	8.8
0.47											5*11	7.0			5*11	12
1.0											5*11	13	5*11	15	5*11	22
2.2											5*11	29	5*11	31	5*11	33
3.3											5*11	35	5*11	37	5*11	40
4.7							5*11	31	5*11	40	5*11	42	5*11	45	5*11	48
10				5*11	44	5*11	54	5*11	58	5*11	65	5*11	70	6.3*11	80	
22			5*11	59	5*11	75	5*11	80	5*11	87	5*11	95	6.3*11	115	8*12	135
33			5*11	84	5*11	90	5*11	97	5*11	105	6.3*11	125	6.3*11	140	10*12	195
47			5*11	100	5*11	110	5*11	115	6.3*11	145	6.3*11	150	8*12	190	10*16	225
100	5*11	130	5*11	145	6.3*11	180	6.3*11	190	8*12	240	8*12	255	10*12	300	13*20	450
220	6.3*11	230	6.3*11	250	8*12	300	8*12	320	8*16	370	10*17	490	10*20	550	16*25	810
330	6.3*11	280	8*12	350	8*12	360	10*12	470	10*17	570	10*20	650	13*20	750	16*25	860
470	8*12	380	8*12	415	10*12	520	10*16	620	10*20	740	13*20	860	13*25	880	16*32	1,100
1,000	10*12	650	10*16	790	10*20	910	13*20	1090	13*25	1,300	16*25	1,530	16*32	1,600		
2,200	13*21	1,150	13*20	1,240	13*25	1,420	16*25	1,660	16*32	1,800	18*36	2,160				
3,300	13*21	1,380	13*25	1,590	16*25	1,840	16*32	1,950	16*36	2,300						
4,700	16*25	1,880	16*25	1,980	16*32	2,260	18*36	2,530	18*36	2,400						



Ripple Current : mA/rms at 120Hz 105°C

Chip Type SMD

Miniature Type

General Purpose

High Frequency Low Impedance

High Voltage High Reliability

Non-polar Type

Large Size Snap-in

Large Size Screw

X Metallized Polypropylene Film Capacitors