

# LG series

- 105°C 2000hours, LUG terminal type.
- High temperature, high ripple current resistance.
- Suitable for machinery, filter circuit of tele-communication.
- RoHS Compliance
- 105°C 2000小時插片式電容。
- 耐高溫、高紋波電流。
- 適用於機械、通訊設備的濾波迴路。



## SPECIFICATIONS

Items 項目	Characteristics 特性				
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)				
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C		-25 ~ +105°C		
Rated Voltage Range 額定電壓範圍	16 ~ 250VDC		315 ~ 450VDC		
Leakage Current 洩漏電流	$I \leq 3\sqrt{CV}$ ( $\mu A$ ) or 5mA, which is greater. ( After 5 minutes application of DC rated voltage, at 20 °C )				
Dissipation Factor 散逸因素( tan $\delta$ )	Measurement Frequency: 120Hz. Temperature: 20°C				
	Rated Voltage(V)	16~25	35~50	63~315	350~450
	tan $\delta$ (Max)	0.35	0.25	0.20	0.25
	When nominal capacitance over 1000 $\mu F$ , tan $\delta$ shall be added 0.01 to the listed value with increase of every 1000 $\mu F$ .				
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	16~100	160~250	315~450	
	Z(-25°C)/Z(20°C)	6	4	8	
	Z(-40°C)/Z(20°C)	12	8	-	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.				
	Capacitance Change	Within ± 25% of Initial Value			
	tan $\delta$	200% or less of Initial Specified Value			
	Leakage Current	Initial Specified Value or less			
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.				
	Capacitance Change	Within ± 25% of Initial Value			
	tan $\delta$	200% or less of Initial Specified Value			
	Leakage Current	Initial Specified Value or less			
Standards 參照標準	JIS C 5101-4 (IEC 60384)				

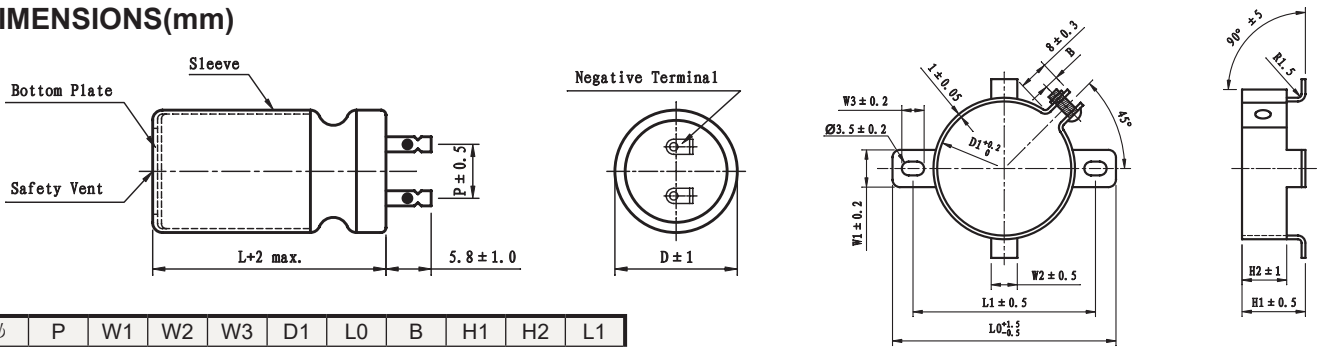
## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)			
	50	120	1K	≥10K
16 ~ 100	0.90	1.00	1.20	1.25
160 ~ 315	0.95	1.00	1.20	1.25
350 ~ 450	0.98	1.00	1.15	1.20

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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## DIMENSIONS(mm)



φ	P	W1	W2	W3	D1	L0	B	H1	H2	L1
25	10.0	11.0	3.5	6.0	25.4	48.0	3.5	10.0	8.0	38.0
30	10.0	11.0	3.5	6.0	30.0	52.0	4.0	11.0	9.0	42.0
35	14.0	11.0	3.5	6.0	34.9	58.0	3.5	15.0	10.0	48.0
40	18.0	14.0	3.5	7.0	40.0	65.0	3.0	18.5	12.5	53.5

## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	V	16		25		35		50		63		80		100	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
470										25x25	0.60	25x25	0.62	25x25	0.85
680										25x25	0.80	25x25	1.03	25x25	1.10
1000						25x25	0.50	25x25	0.80	25x25	1.10	25x35	1.30	25x40	1.40
1500						25x25	0.80	25x25	1.10	25x25	1.50	25x35	1.70	25x40	1.80
2200		25x25	0.70	25x25	1.00	25x35	1.30	25x35	1.60	25x35	1.70	25x50	1.90	30x50	2.40
3300		25x25	1.02	25x30	1.40	25x40	1.80	25x50	2.10	30x50	2.30	30x60	2.60	30x60	2.80
4700		25x30	1.50	25x35	1.90	25x50	2.00	30x50	2.60	30x60	2.80	35x60	3.10	40x60	3.70
6800		25x35	2.01	25x50	2.40	30x50	2.70	35x50	3.00	35x60	3.20	40x60	3.90	40x80	5.10
10000		25x50	2.40	30x50	2.90	30x60	3.20	35x60	4.40	40x60	4.90	40x80	5.80		

Cap (μF)	V	160		200		250		315		350		400		450	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
22														25x35	0.15
33														25x50	0.21
47												25x40	0.21	25x50	0.22
100						25x50	0.43	25x50	0.44	25x50	0.45	30x50	0.48	30x60	0.53
150						25x50	0.51	25x50	0.62	25x50	0.61	30x50	0.61	30x60	0.61
220		25x50	0.64	30x50	0.71	30x50	0.72	35x50	0.82	35x60	0.82	35x80	0.82	35x80	0.92
330		30x50	0.92	30x60	0.92	35x60	1.03	35x80	1.05	35x80	1.10	40x80	1.10		
470		30x60	1.20	35x60	1.20	35x80	1.30	40x80	1.40	40x80	1.50				
680		35x60	1.60	40x60	1.70	40x80	1.80								
1000		35x80	2.20												