

LM series

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- 85°C 2000 hours, LUG terminal type.
- High ripple current resistance.
- Suitable for power supply, control circuit of inverter.
- RoHS Compliance
- 85°C 2000小時 插片式電容。
- 耐高紋波電流。
- 適用於電源供應器、變頻器控制電路。



SPECIFICATIONS

Items 項 目	Characteristics 特 性					
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)					
Operating Temperature Range 適用溫度範圍	-40 ~ +85℃			-25 ~ +85℃		
Rated Voltage Range 額定電壓範圍	16 ~ 250VDC			315 ~ 450VDC		
Leakage Current 洩漏電流	I ≤ 0.02CV (μA) or 5mA, whichever is smaller. (After 5 minutes application of DC rated voltage, at 20 °C)					
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃					
	Rated Voltage(V)	16	25	35~50	63~315	350~450
	tan δ(Max)	0.35	0.30	0.25	0.20	0.25
	When nominal capacitance over 1000μF, tanδ shall be added 0.01 to the listed value with increase of every 1000μF .					
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℃)/Z(20℃)	6		4		8
	Z(-40℃)/Z(20℃)	12		-		-
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85℃.					
	Capacitance Change		Within ± 20% of Initial Value			
	tan δ		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℃ after exposing them for 1,000 hours 85℃ 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 ± 20% of Initial Value			
	tan δ		200% or less of Initial Specified Value			
	Leakage Current		Initial Specified Value or less			
Standards 參照標準	IEC 60384-4(JIS C 5101-4)					

Frequency Coefficient of Permissible Ripple Current

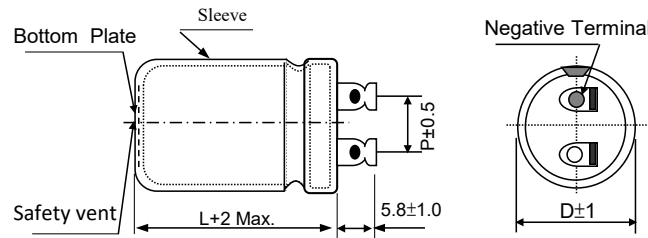
Rated Voltage (V)	Frequency (Hz)			
	50	120	1K	$\geq 10K$
16 ~ 100	0.90	1.00	1.20	1.25
160 ~ 315	0.95	1.00	1.20	1.25
350 ~ 450	0.98	1.00	1.15	1.20

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DIMENSIONS(mm)



ϕ	25.4	30	35	40	51
P	10	10	14	18	20

STANDARD RATINGS

DxL(mm), R.C.(A rms) at 85°C 120 Hz.

Cap (μF)	V	16		25		35		40		50	
	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.
3300								25.4x30	2.45	25.4x30	2.47
4700						25.4x30	2.88	25.4x40	3.21	25.4x40	3.22
6800				25.4x30	3.12	25.4x40	3.73	25.4x50	4.07	25.4x50	4.09
10000	25.4x30	3.43	25.4x40	4.03	25.4x50	4.71	25.4x60	5.07	30x50	5.10	
15000	25.4x40	4.42	25.4x50	5.08	30x50	5.81	30x60	6.24	35x60	6.67	
22000	25.4x50	5.44	30x50	6.15	35x60	7.45	35x60	7.48	35x80	8.34	
33000	30x50	6.57	35x60	7.85	35x80	9.17	35x80	9.25	40x100	10.60	
47000	35x60	8.19	35x80	9.48	40x100	11.3	51x105	12.5	51x105	12.80	
68000	35x80	9.85	40x100	11.6	51x105	13.2					
100000		12.1	51x105	13.5							
150000	51x105	13.9									

Cap (μF)	V	63		80		100		160		200	
	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.
330								25.4x30	0.92	25.4x30	0.95
470								25.4x40	1.22	25.4x40	1.25
680								25.4x50	1.60	25.4x50	1.63
1000						25.4x30	1.61	25.4x60	2.08	30x50	2.12
1500				25.4x30	1.91	25.4x40	2.13	30x60	2.68	35x50	2.87
2200	25.4x30	2.06	25.4x40	2.52	25.4x50	2.75	35x60	3.40	35x60	3.81	
3300	25.4x40	2.73	25.4x50	3.29	30x50	3.53	35x100	5.02	35x80	5.27	
4700	25.4x50	3.50	25.4x60	4.14	35x60	4.76	40x100	6.15	40x100	6.81	
6800	25.4x60	4.37	30x60	5.15	35x80	6.17	51x105	7.86	51x105	8.12	
10000	30x60	5.46	35x80	7.08	40x100	8.16					
15000	35x80	7.48	40x80	8.42	51x105	10.2					
22000	35x100	9.16	51x105	11.2							
33000	51x105	11.7									

Cap (μF)	V	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.
68										25.4x30	0.38
100						25.4x30	0.50	25.4x30	0.50	25.4x40	0.50
150				25.4x30	0.61	25.4x40	0.69	25.4x40	0.62	25.4x50	0.68
220	25.4x30	0.75	25.4x40	0.84	25.4x50	0.91	25.4x50	0.81	30x50	0.88	
330	25.4x40	1.02	25.4x50	1.12	25.4x60	1.21	30x60	1.15	35x60	1.24	
470	25.4x50	1.34	25.4x60	1.43	30x60	1.54	35x60	1.47	35x80	1.65	
680	30x50	1.73	30x60	1.85	35x60	1.98	35x80	1.98	35x100	2.18	
1000	30x60	2.25	35x70	2.56	35x100	2.95	40x100	2.78	51x80	2.77	
1500	35x80	3.21	35x100	3.54	40x100	3.72	51x105	3.69			
2200	35x100	4.19	40x100	4.41	51x105	4.86					
3300	51x80	5.24	51x105	5.82							

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