



LSM 5mL, General Purpose, 105°C



Features

- 5.0+1 mm max height
- Load life 105°C, 1000hours assured

Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated voltage Range	4 to 50 VDC							
Capacitance Range	0.1 to 220 µF							
Capacitance Tolerance	±20%(120Hz, +20°C)							
Leakage Current (+20°C, max.)	I ≤ 0.01 CV or 3(µA) After 2minutes, whichever is greater measured with rated working voltage applied.							
Dissipation Factor (tanδ)	Working Voltage (VDC)	4	6.3	10	16	25	35	50
	D.F.(%)max	35	28	24	20	16	14	12
(+20°C, at 120Hz)								
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.							
	Working Voltage (VDC)	4	6.3	10	16	25	35	50
	Z (-25°C)/Z(+20°C)	7	4	3	2	2	2	2
Z (-40°C)/Z(+20°C)								
15 8 6 4 4 4 4								
Load Life	Test conditions Duration time : 1000Hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements: ≤ ±30% of the initial measured value Dissipation Factor: ≤ 200% of the initial specified value Leakage current: ≤ The initial specified value							
Shelf Life	Test conditions Duration time : 1000Hrs Ambient temperature: +105°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.							

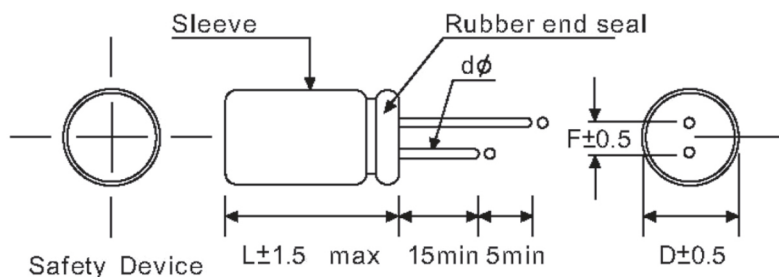
Multiplier for Ripple Current VS, Frequency

CAP(µF)/Hz	50(60)	120	1K	10K	
Multiplier	0.1~47	0.8	1.0	1.30	1.50
	56 UP	0.8	1.0	1.15	1.20

Multiplier for Ripple Current VS, Temperature

Temperature (°C)	40	65	85	105
Multiplier	2.0	1.6	1.25	1.00

Diagram of Dimensions: (Unit: mm)



Dφ	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
dφ	0.45			



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Case Size

φD x L (mm)

μF	W.V. {S.V.}	4 {5}		6.3 {8}		10 {13}		16 {20}		25 {32}		35 {44}		50 {63}	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1		→												3x5	1.0
														4x5	1.0
0.22		→												3x5	2.0
														4x5	2.0
0.33		→												3x5	2.8
														4x5	2.8
0.47		→												3x5	3.8
														4x5	4.0
1		→												3x5	6.2
														4x5	8.0
2.2		→												3x5	8.0
														4x5	10
3.3		→												3x5	9.0
														4x5	17
4.7		→						3x5	9.0	3x5	10	4x5	20	4x5	20
								4x5	15	4x5	18	4x5	20	4x5	20
10		→						3x5	18	4x5	25	5x5	29	6x5	30
								4x5	20	4x5	25	5x5	29	6x5	30
22		→						4x5	30	5x5	40	6x5	46	6x5	54
								5x5	35	5x5	40	6x5	46	6x5	54
33		4x5	26	4x5	30	4x5	35	5x5	40	6x5	50	6x5	60	8x5	68
47		4x5	35	4x5	38	4x5	44	5x5	50	6x5	62	8x5	72	-	-
		4x5	35	4x5	38	5x5	46	6x5	58	6x5	62	8x5	72	-	-
68		4x5	49	5x5	5	5x5	58	6x5	72	8x5	75	-	-	-	-
		4x5	49	5x5	5	6x5	60	6x5	72	8x5	75	-	-	-	-
100		5x5	58	5x5	60	6x5	76	6x5	86	8x5	92	-	-	-	-
		5x5	58	5x5	60	6x5	76	6x5	86	8x5	92	-	-	-	-
220		6x5	74	6x5	90	6x5	90	8x5	92	-	-	-	-	-	-
		6x5	74	6x5	90	6x5	90	8x5	92	-	-	-	-	-	-

•Ripple Current (mA, rms) at 105°C 120Hz

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