



LSM Series 105°C 超迷你型製品系列

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	6.3 to 50 VDC																					
Capacitance Range	0.1 to 220 uF																					
Capacitance Tolerance	±20%[120Hz +20 °C]																					
Leakage Current[+20°C.max.]	1 ≤ 0.01 CV or 3(uA) After 2minutes. Whichever is greater measured with rated working voltage applied																					
Dissipation Factor[tan δ]	<table border="1"> <tr> <td>Working Voltage [VDC]</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>36</td> <td>50</td> </tr> <tr> <td>D.F.[%]max</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> </tr> </table> [+20°C. At 120Hz]	Working Voltage [VDC]	6.3	10	16	25	36	50	D.F.[%]max	24	20	16	14	12	10							
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Low Temperature Characteristics [120Hz]	Impedance ratio max <table border="1"> <tr> <td>Working Voltage[VDC]</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Working Voltage[VDC]	6.3	10	16	25	35	50	Z-25°C/Z+20°C	3	3	2	2	2	2	Z-40°C/Z+20°C	8	5	4	3	3	3
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Z-25°C/Z+20°C	3	3	2	2	2	2																
Z-40°C/Z+20°C	8	5	4	3	3	3																
Load Life	Test conditions Duration time :1000Hrs Ambient temperature: +105 °C Applied voltage: Rated DC working voltage After test requirements at +20 % Capacitance change : ≤ ± 20% 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 :1000 Hrs Ambient temperature :+105 °C Applied voltage: None After test requirements at +20 °C: Some limits as Load life. Pre-treatment for measurements shall be conducted after Application of DC working voltage for 30 minutes.																					

RIPPLE CURRENT COEFFICIENTS

Temperature Multiplies

TEMP (°C)	85	105
Coefficient	1.70	1.00



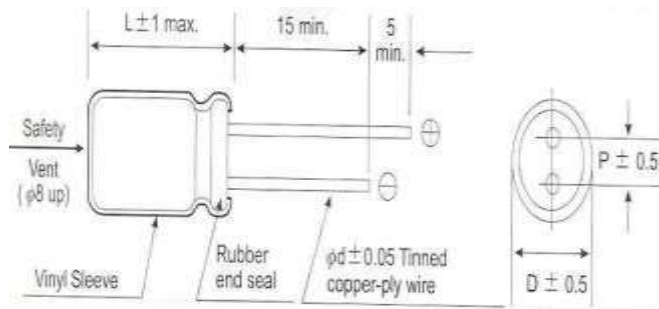
TROUBLE
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Frequency Coefficient of Allowable Ripple Current

Capacitance (uF)	Frequency (Hz)			
	50	120	1K	≥10K
<100	0	1.00	1.30	1.50
≥100	0	1.00	1.15	1.20

DIMENSIONS (MM)



DΦ	3	4	5	6.3	8
F	1.0±0.3	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
dΦ	0.4	0.45		0.50	

DIMENSIONS

Cap (uF)	WV (V) Item	4		6.3		10		16	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
10								3x5 4x5	10 18
22								4x5	30
33						4x5	34	5x5	40
47				4x5	34	4x5 5x5	45 46	5x5 6.3x5.5	58 68
10				5x5	60			6.3x5.5	110
15									
22					130	6.3x5.5	145	8x5.5	175
33					165	8x5	190		
47									

Cap (uF)	WV (V) Item	25		35		50	
		D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1						4x5	1.0
0.22						4x5	2.0
0.33						4x5	3.0
0.47						4x5	3.7
1.0						4x5	6.2
2.2						3x5 4x5	10 12
3.3						4x5	16
4.7				3x5	16	4x5	18
10		4x5	22	5x5	25	6.3x5.5	28
22		5x5	38			6.3x5.5	60
33				6.3x5.5	65		
47		6.3x5.5	75	8x5	80		
100		8x5	95				