



# LLM 7mmL, Low Leakage Current, 105°C



## Features

- Low leakage current, height 7 mm

## 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 μF						
Capacitance Tolerance	±20%(120Hz, +20°C)						
Leakage Current (+20°C, max.)	I ≤ 0.02 CV or 0.4(μA) After 2minutes, whichever is greater measured with rated working voltage applied.						
Dissipation Factor (tanδ)	Working Voltage (VDC)	6.3	10	16	25	35	50
	D.F.(%)max	24	20	16	14	12	10
( +20°C, at 120Hz)							
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.						
	Working Voltage (VDC)	6.3	10	16	25	35	50
	Z (-25°C)/Z(+20°C)	4	3	3	2	2	2
Z (-40°C)/Z(+20°C)	10	6	6	4	4	4	
Load Life	Test conditions Duration time :1000Hrs Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements at +20°C 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 :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.						

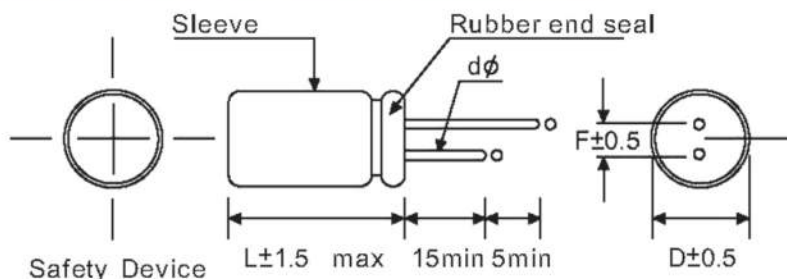
## Multiplier for Ripple Current VS, Frequency

CAP(μF)/Hz	50(60)	120	400	1K	10K	UP
Multiplier	0.1~47	0.70	1.00	1.20	1.30	1.45
	56 UP	0.8	1.00	1.10	1.15	1.20

## Multiplier for Ripple Current VS, Temperature

Temperature (°C)	65	85	105
Multiplier	2.0	1.6	1.0

## Diagram of Dimensions: (Unit: mm)



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



# LLM 7mmL, Low Leakage Current, 105°C

## Case Size

φD x L (mm)

W.V. {S.V.}	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
0.1	→										4x7	1.0
0.22	→										4x7	2.0
0.33	→										4x7	3.0
0.47	→										4x7	5.0
1	→										4x7	10
2.2	→										4x7	16
3.3	→										4x7	21
4.7	→								4x7	21	5x7	25
10	→			4x7	25	5x7	30	5x7	33	6.3x7	40	
22	4x7	31	5x7	35	5x7	40	6.3x7	48	6.3x7	52	8x7	58
33	5x7	40	5x7	44	5x7	53	6.3x7	59	8x7	65	-	-
47	5x7	48	6.3x7	55	6.3x7	60	8x7	73	-	-	-	-
100	6.3x7	70	8x7	90	8x7	95	-	-	-	-	-	-
220	8x7	110	-	-	-	-	-	-	-	-	-	-

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

RADIAL