

LLS Series 105 °C

Features

- 105 °C, 1000 hours assured, 5 mm height with low leakage current
- Use in very compact high temperature industrial equipment



Specifications

Item

Performance

Operating Temperature Range -40°C to +105 °C

Capacitance Tolerance ±20 % (at 120 Hz, 20 °C)

Leakage Current (at 20 °C) $I \leq 0.002 CV$ or 0.4 (uA) whichever is greater (After 2 minutes)
Where, C = rated capacitance in uF, V = rated DC working voltage in V.

Dissipation Factor
(tan δ at 120 Hz, 20 °C)

Rated Voltage	4	6.3	10	16	25	35	50
tan δ max	0.35	0.27	0.23	0.19	0.15	0.13	0.11

Low Temperature
Characteristics (at 120 Hz)

Impedance ratio shall not exceed the values given in the table below

Rated Voltage		4	6,3	10	16	25	35	50
Impedance ratio	Z-25 °C/Z+20 °C	6	3	2	2	2	2	2
	Z-40 °C/Z+20 °C	12	9	7	5	3	3	3

Load Life

Test Time		1000 hrs
Impedance ratio	4~6.3V	Within ± 30 % of initial value
	10~50V	Within ± 25 % of initial value
Dissipation Factor		Less than 200 % of specified value
Leakage Current		Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20 °C after the rated voltage applied for 1000 hrs at 105 °C

Shelf Life

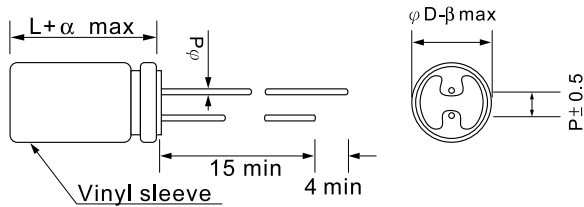
Test Time		500 hrs
Impedance ratio	4~6.3V	Within ± 30 % of initial value
	10~50V	Within ± 25 % of initial value
Dissipation Factor		Less than 200 % of specified value
Leakage Current		Within specified value

*The above specifications shall be suitable when the capacitors are restored to 20 °C after exposing them for hrs at 105 °C without voltage applied.

Standards

Satisfies Characteristic W of JIS C 5141

Diagram of Dimensions



Lead Spacing And Diameter

Unit: mm

ϕD	4	5	6.3
P	1.5	2.0	2.5
ϕd	0.45		
α	1.0		
β	0.5		

Dimension & Permissible Ripple Current

V.DC uF	4 V		6.3 V		10 V		16 V		25 V		35 V		50 V	
	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1													4x5	1
0.22													4x5	2
0.33													4x5	3
0.47													4x5	3.8
1													4x5	6.9
2.2													4x5	10
3.3													4x5	13
4.7									4x5	14	4x5	16	5x5	19
10							4x5	19	5x5	23	5x5	24	6.3x5	32
22			4x5	22	5x5	24	5x5	28	6.3x5	38	6.3x5	42		
33	5x5	27	5x5	28	5x5	30	6.3x5	41	6.3x5	46				
47	5x5	32	5x5	34	6.3x5	43	6.3x5	50						
100	6.3x5	54	6.3x5	60										