



LLS 5mmL, Low Leakage Current, 105°C



Features

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

Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated voltage Range	6.3 to 50 VDC							
Capacitance Range	0.1 to 100 µF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current (+20°C)	I ≤ 0.002 CV or 0.4 (µA) whichever is greater (After 2 minutes) Where, C=rated capacitance in µF. V= rated DC working voltage in V.							
Dissipation Factor (tanδ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50	
	tan δ max	0.27	0.23	0.19	0.15	0.13	0.11	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.							
	Rated Voltage (VDC)		6.3	10	16	25	35	50
	Impedance ratio	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 Time		1000 Hrs					
	Capacitance change	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		1000 Hrs					
	Capacitance change	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 exposing them for hrs at 105°C without voltage applied.								
Standards	Satisfies Characteristic W of JIS C 5141							

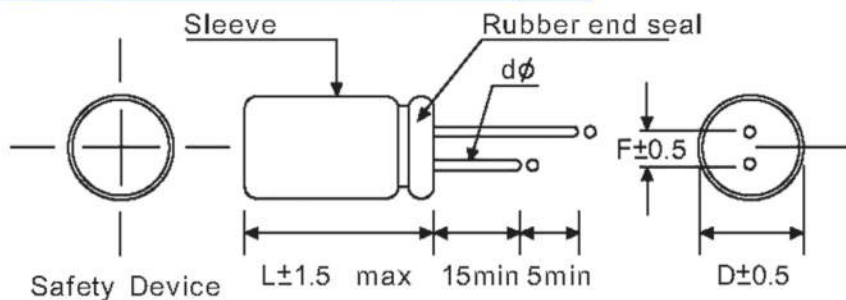
Multiplier for Ripple Current VS, Frequency

CAP(µF)/Hz		50(60)	120	1K	10K UP
Multiplier	Under~47	0.8	1.00	1.30	1.50
	100	0.8	1.00	1.15	1.20

Multiplier for Ripple Current VS, Temperature

Temperature (°C)	40	65	85	105
Multiplier	2.0	1.90	1.40	1.0

Diagram of Dimensions: (Unit: mm)



Dφ	4	5	6.3
F	1.5	2.0	2.5
dφ	0.45		



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Case Size

φD x L (mm)

μF	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												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	28	6.3x5	38	6.3x5	42	-	-	
33	5x5	27	5x5	28	6.3x5	41	6.3x5	46	-	-	-	-	
47	5x5	32	5x5	34	6.3x5	50	-	-	-	-	-	-	
100	6.3x5	54	6.3x5	60	-	-	-	-	-	-	-	-	

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

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