



LGS 5mmL, General Purpose, 85°C



Features

- 5.0+1 mm max height
- Load life 85°C, 1000hours assured

Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +85°C							
Rated voltage Range	4 to 50 VDC							
Capacitance Range	0.1 to 330 μ F							
Capacitance Tolerance	\pm 20%(120Hz, +20°C)							
Leakage Current (+20°C, max.)	$I \leq 0.01 CV$ or $3(\mu A)$ After 2minutes, whichever is greater measured with rated working voltage applied.							
Dissipation Factor (tan δ)	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 (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 4								
Load Life	Test conditions Duration time : 1000Hrs Ambient temperature:+85°C Applied voltage: Rated DC working voltage After test requirements: $\leq \pm$ 30% of the initial measured value Dissipation Factor: \leq 200% of the initial specified value Leakage current: \leq The initial specified value							
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature:+85°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.							

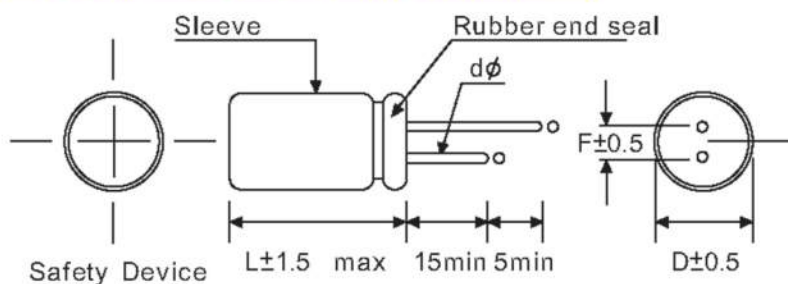
Multiplier for Ripple Current VS, Frequency

CAP(μ F)/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)	45	60	70	85
Multiplier	1.8	1.5	1.3	1.0

Diagram of Dimensions: (Unit: mm)



D ϕ	4	5	6.3	8
F	1.5 \pm 0.5	2.0 \pm 0.5	2.5 \pm 0.5	3.5 \pm 0.5
d ϕ	0.45			



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Case Size

φD x L (mm)

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	→												4x5	1.0
0.22	→												4x5	2.6
0.33	→												4x5	3.2
0.47	→												4x5	3.8
1	→												4x5	6.0
2.2	→												4x5	9
3.3	→												4x5	14
4.7	→						4x5	20	4x5	20	4x5	20	4x5	20
10	→						4x5	20	4x5	27	5x5	29	6x5	30
22	→						4x5	33	5x5	44	6x5	46	6x5	48
33	4x5	28	4x5	33	4x5	39	5x5	42	6x5	48	6x5	52	8x5	60
47	4x5	33	4x5	39	5x5	42	5x5	58	6x5	62	8x5	65	-	-
68	4x5	43	5x5	53	6x5	56	6x5	64	8x5	85	8x5	88	-	-
100	5x5	52	5x5	65	6x5	76	6x5	86	8x5	108	-	-	-	-
220	6x5	78	6x5	85	6x5	92	8x5	125	-	-	-	-	-	-
330	8x5	130	8x5	135	-	-	-	-	-	-	-	-	-	-

•Ripple Current (mA, rms) at 85°C 120Hz

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