

LF Series

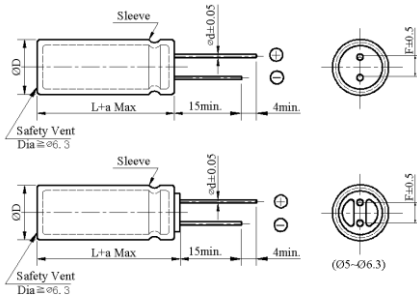
- Standard size downsized
- 2,000 hours assured at 105°C



◆ SPECIFICATIONS

Item	Performance Characteristics										
Category Temperature Range	-25 ~ +105°C										
Working Voltage Range	200 ~ 450Vdc										
Capacitance Range	1 ~ 68 µF										
Capacitance Tolerance	±20% (at 25°C and 120Hz)										
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200 ~ 250</td> <td>350</td> <td>400 ~ 450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	200 ~ 250	350	400 ~ 450	tanδ(Max)	0.15	0.20	0.20		
	Rated Voltage (V)	200 ~ 250	350	400 ~ 450							
tanδ(Max)	0.15	0.20	0.20								
The above values should be increased by 0.02 for every additional 1000µF											
Leakage Current	$I \leq 0.03CV + 10 \mu A$ I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes										
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>200 ~ 250</td> <td>350</td> <td>400</td> <td>420 ~ 450</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>5</td> <td>6</td> </tr> </table> (at 120Hz)	Rated voltage (V)	200 ~ 250	350	400	420 ~ 450	Z(-25°C)/Z(+20°C)	3	5	5	6
Rated voltage (V)	200 ~ 250	350	400	420 ~ 450							
Z(-25°C)/Z(+20°C)	3	5	5	6							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C <table border="1"> <tr> <td>Capacitance change</td> <td>≅ ±20% of the original value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≅ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≅ specified value</td> </tr> </table>	Capacitance change	≅ ±20% of the original value	Dissipation factor(tanδ)	≅ 200% of the specified value	Leakage current	≅ specified value				
Capacitance change	≅ ±20% of the original value										
Dissipation factor(tanδ)	≅ 200% of the specified value										
Leakage current	≅ specified value										
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 500 hours at 105°C without voltage applied. <table border="1"> <tr> <td>Capacitance change</td> <td>≅ ±20% of the original value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≅ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≅ 200% of the specified value</td> </tr> </table>	Capacitance change	≅ ±20% of the original value	Dissipation factor(tanδ)	≅ 200% of the specified value	Leakage current	≅ 200% of the specified value				
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Dissipation factor(tanδ)	≅ 200% of the specified value										
Leakage current	≅ 200% of the specified value										
Others	Conforms to JIS-C-5101-4 (1998), characteristic W										

◆ DIMENSIONS (mm)



ΦD	5	6.3	8	10	12.5	16	18
ΦD	ΦD + 0.5 Max						
Φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	L + 1.5 Max				$\leq 35 L + 1.5 \text{Max}$ $\geq 40 L + 2.0 \text{Max}$		L + 1.5 Max

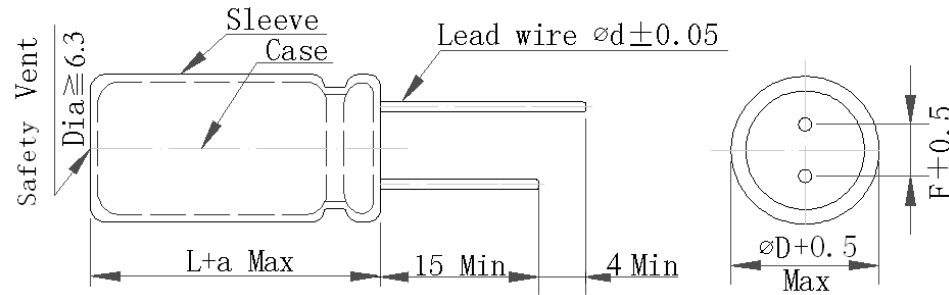
◆ PART NUMBER SYSTEM (Example : 400V 47 µF)

L	F	2	G	4	7	0	M	N	N	1	6	N	3				
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Special Request
 Size code(16N3 : 16×31.5)
 Lead length code
 Lead forming Type code
 Capacitance tolerance code(M: ±20%)
 Capacitance code (47µF)
 Voltage code (400V)
 Series code (LF)

Aluminum Electrolytic Capacitor

Customer	Digi-Key	SERIES	LF	NO.:	PUBLISH DATE	2022-03-25
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No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (°C)	Tan δ @ 25°C (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 105°C 120Hz	Rated Ripple Current (mA rms) @ 105°C 100kHz	ESR @25°C (m Ω max/ 120Hz)	Impedance @20°C (m Ω max/ 100kHz)	Endurance @ 105°C (Hours)	Dimensions (mm)					Appearance Drawing No
															D Φ	L	a	d	F	
1	LF2W820MNN1250	/	82 μ F	$\pm 20\%$	450 V	/	-25~+105	/	/	720	/	/	/	2000	12.5	50	/	/	5	---

※Test leakage current before testing dissipation factor and capacitance during the electric characteristic test.

REMARKS:	APPROVED BY	CHECKED BY	PREPARED BY
Sleeve Color: Black.	张洪斌	曾爱娥	梁慧妍