

LF Series

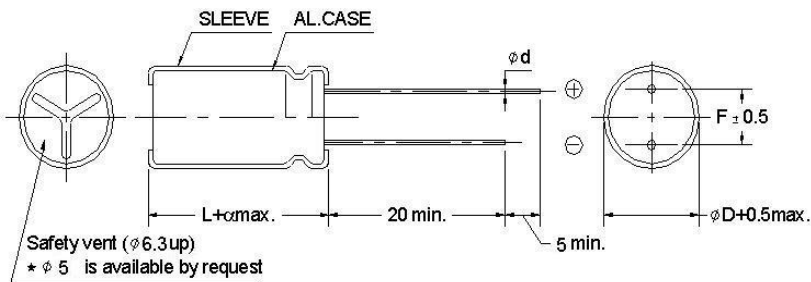
+105°C, High Ripple Current (高纹波). Long Life Assurance (长寿命), Low Impedance (低阻抗品)

FEATURES

1. Low Impedance for high frequency.
2. Long life: 3000~6000 hours at 105°C

SPECIFICATIONS																		
Item	Performance Characteristics																	
Operation Temperature Range	-40 to +105°C																	
Rated Working Voltage Range	6.3 to 100V																	
Nominal Capacitance Range	15 to 3900µF																	
Capacitance Tolerance	±20%(120Hz, +20°C)																	
Leakage Current	L≤0.01CV or 3(µA) (after 2 minutes, whichever is greater) L=Leakage Current(µA) C=Nominal Capacitance(µF) V=Rated Voltage(V)																	
tan δ (120Hz,+20°C)	Working Voltage(V)	6.3	10	16	25	35	50	63	100									
	tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
	For capacitance value>1000µF, add 0.02 per another 1000µF																	
Low Temperature Characteristics	Impedance ratio max. at 120 HZ																	
	Working Voltage(V)	6.3	10	16	25	35	50	63	100									
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2									
	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3									
High Temperature Loading	Test conditions				Post test requirements at +20°C													
	Duration :				Leakage current :≤Initial specified value													
	<table border="1"> <tr> <td>ΦD</td> <td>5-6.3</td> <td>8</td> <td>10</td> <td>12.5</td> </tr> <tr> <td>Load life</td> <td>2000 h</td> <td>3000 h</td> <td>5000 h</td> <td>400 h</td> </tr> </table>				ΦD	5-6.3	8	10	12.5	Load life	2000 h	3000 h	5000 h	400 h	Cap.change :within ±25% of initial measured value			
ΦD	5-6.3	8	10	12.5														
Load life	2000 h	3000 h	5000 h	400 h														
Ambient temp. : +105°C				Tan δ :≤150% of initial specified value														
Applied voltage : Rated DC working voltage with rated ripple current																		
Shelf Life	Test conditions				Post test requirements at +20°C													
	Duration : 1000 hours				Same limits for high temperature loading.													
	Ambient temp : +105°C																	
	Applied voltage :(None)																	
Other	JIS C-5101 (IEC 60384)																	

CASE SIZE TABLE



ΦD	5	6.3	8 (L<20)	8 (L≥20)	10	12.5
F	2.0	2.5	3.5		5.0	5.0
Φd	0.5			0.6 0.6		
α	(L<20) 1.5			(L≥20) 2.0		
β	(D<20) 0.5			(D≥20) 1.0		

RIPPLE CURRENT MULTIPLIER

Frequency coefficient

Cap(µF)	Coefficient	Freq(Hz)	50	120	300	1k	100K
15~33			0.45	0.55	0.70	0.90	1.00
39~330			0.60	0.70	0.85	0.95	1.00
470~1000			0.65	0.75	0.90	0.98	1.00
1200~3900			0.75	0.80	0.95	1.00	1.00

LF Series

+105°C, High Ripple Current (高纹波). Long Life Assurance(长寿命), Low Impedance(低阻抗品)

STANDARD RATINGS										
Voltage(Code)		6.3V(0J)			10V(1A)			16V(1C)		
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
120	127							6.3*11	0.220	340
150	157									
220	227				6.3*11	0.220	340			
330	337	6.3*11	0.220	340				8*12	0.130	640
470	477				8*12	0.130	640	8*16	0.087	840
								10*12.5	0.080	865
680	687	8*12	0.130	640	8*16	0.087	840	8*20	0.069	1050
					10*12.5	0.080	865	10*16	0.060	1210
820	827	10*12.5	0.080	865						
1000	108	8*16	0.087	840	8*20	0.069	1050	10*20	0.046	1400
					10*16	0.060	1210			
1200	128	8*20	0.069	1050	10*20	0.046	1400	10*25	0.042	1650
		10*16	0.060	1210						
1500	158	10*20	0.046	1400	10*25	0.042	1650	12.5*20	0.035	1900
2200	228	10*25	0.042	1650	12.5*20	0.035	1900	12.5*25	0.030	2124
3300	338	12.5*20	0.035	1900	12.5*25	0.030	2124			
3900	398	12.5*25	0.030	2124						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD xL(mm)

Maximum Impedance (Ω)at20°C 100kHz

Voltage(Code)		25V (1E)			35V (1V)			50V (1H)		
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
56	566				6.3*11	0.220	340	6.3*11	0.300	295
100	107	6.3*11	0.220	340				8*12	0.170	555
120	127							8*16	0.120	730
150	157				8*12	0.130	640	10*12.5	0.120	760
220	227	8*12	0.130	640	8*16	0.087	840	10*16	0.084	1050
					10*12.5	0.080	865			
330	337	8*16	0.087	840	10*16	0.060	1210	10*25	0.055	1440
		10*12.5	0.080	865						
470	477	8*20	0.069	1050	10*20	0.046	1400	12.5*20	0.045	1660
		10*16	0.060	1210						
560	567				10*25	0.042	1650	12.5*25	0.034	1950
680	687	10*20	0.046	1400	12.5*20	0.035	1900			
820	827	10*25	0.042	1650						
1000	108	12.5*20	0.035	1900	12.5*25	0.030	2124			
1500	158	12.5*25	0.030	2124						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD xL(mm)

Maximum Impedance (Ω)at20°C 100kHz

Voltage(Code)		63V (1J)			100V (2A)					
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
15	156				6.3*11	0.960	115			
27	276				8*12	0.504	232			
33	336	6.3*11	0.960	115						
39	396				8*16	0.360	300			
47	476				10*12.5	0.344	314			
56	566	8*12	0.504	232	8*20	0.264	362			
68	686				10*16	0.248	357			
82	826	8*16	0.360	300	10*20	0.168	466			
		10*12.5	0.344	314						
100	107				10*25	0.160	531			
120	127	8*20	0.264	362	12.5*20	0.128	690			
		10*16	0.248	357						
180	187	10*20	0.168	466	12.5*25	0.096	922			
220	227	10*25	0.160	531						
270	277	12.5*20	0.128	690						
330	337	12.5*25	0.096	922						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD xL(mm)

Maximum Impedance (Ω)at20°C 100kHz

Rubysun