LF Series

■STANDARD RATINGS

WV(vdc)		160		200			
Parameter	ΦDxL(mm)	Impedance(Ω)	Ripple Current (mArms)	ФDxL(mm)	Impedance(Ω)	Ripple Current (mArms)	
Cap.(μF)	ΦDλL(IIIII)	20°C,100KHz	105℃,100KHz	ΨDXL(IIIII)	20℃,100KHz	105℃,100KHz	
22				10x20	1.88	440	
33	10x20	1.63	565	13x20	1.14	590	
47	13x20	1.14	725	13x20	1.14	780	
68	13x25	0.79	950	13x25	0.79	950	
100	16x25	0.34	1280	16x25	0.34	1280	
150	16x31	0.28	1300	16x25	0.37	1300	
220	16x31	0.28	1300	18x32	0.28	1700	
330	18x32	0.28	1700				

WV(vdc)		250		350			
Paramete,	ΦDxL(mm)	dDyl (mm) Impedance(Ω)		ФDxL(mm)	Impedance(Ω)	Ripple Current (mArms)	
Cap.(μF)	ΨΒλΕ(ΙΙΙΙΙΙ)	20°C,100KHz	105℃,100KHz	ΨDXL(IIIII)	20℃,100KHz	105℃,100KHz	
10	10x20	4.38	300				
22	13x20	2.88	480	13x20	2.63	270	
33	13x25	2.13	630	16x20	1.14	600	
47	13x25	2.13	630	16x25	1.14	700	
68	16x25	0.98	1000	16x31	0.61	1100	
100	16x31	0.79	1400	18x32	0.5	1170	
150	18x32	0.53	1450				

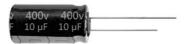
WV(vdc)		400				
Parameter	ΦDxL(mm)	Impedance(Ω)	Ripple Current (mArms)	ФDxL(mm)	Impedance(Ω)	Ripple Current (mArms)
Cap.(μF)	ΦDXL(IIIII)	20°C,100KHz	105℃,100KHz	ΨDXL(IIIII)	20℃,100KHz	105℃,100KHz
3.3				10x20	7.8	150
4.7				13x20	4.5	200
10	10x20	3.62	180	13x25	3.13	315
22	13x25	1.62	300	16x25	2.13	570
33	16x20	1.5	600	16x31	1.88	620
47	16x25	1.25	700	18x32	1.63	900
68	16x40	1	1050	18x36	1.06	980
58	18x36	0.94	1100			

LF

Series

- 105°C high frequency, low impedance
- 5000 hours guaranteed for $\Phi D \leq \Phi 10$
- 7000 hours guaranteed for ΦD≥Φ13

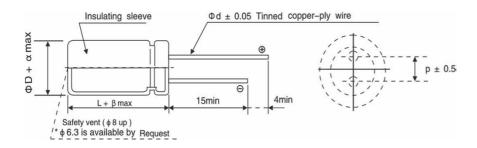




■SPECIFICATIONS

Item		Characteristics							
Category Temperature Range		-40 ~ +105°C (160 ~				-25 ~ +105°C (450V.DC)			
Voltage Range					160	~ 450 V.DC			
Nominal Cap. Range					3.	3 ~ 330µF			
Capacitance Tolerance		± 20 % (at 120Hz , 20°C)							
				1 min		5 min			
Leakage Current		1000		/+40(μA)		√+15(µA)			
	_	1000		/+100(µA)		V+25(μA)		0.0.4	
	where, I: r	nax leaka	ge current	(μΑ), C: No	minal cap	acitance (µF	F), V:Rated voltage	ge (V) (at 20℃)	
Dissipation Factor (MAX)	W.V.	160	~250	350、	400	45	0		
(tanδ) (at 120Hz ,20°C)	tanδ	tanδ 0.20		0	24	0.2	24		
(tano) (at 120112 ,20 c)									
	VV	. v .	160	~250	350.	400	450		
Low Temp.Impedance	7-25℃ /	Z-25℃ / Z+20℃		3		5	6		
Stability at 120Hz		Z-40°C / Z+20°C		-		6			
	After ΦD≤Φ10:5000 hours, ΦD≥Φ13:7000 hours application of DC rated working voltage at 105°C,the								
		capacitor shall meet the following limits.							
Endurance		Capacitance change			≤ ±20% of the initial value				
		Dissipation Factor			≤ 200% of the initial specified value				
	Leakage (Leakage Current			ial specifie	ed value			
	After storage for 1000 hours at 105℃ with no voltage applied,voltage treatment of of JIS-C-5102 article 4-4								
	is to be given and then measurement shall be made, the capacitor shall meet the following limits.								
Shelf Life	Capacitan	Capacitance Change			≤ ±20% of the initial value				
	Dissipatio	Dissipation Factor			≤ 200% of the initial specified value				
	Leakage (Current		≤ 500% c	of the initia	I specified v	alue		
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■ DRAWING



Unit: (mm)

ФD	10 13		16	18		
Р	5.0 5.0		7.5	7.5		
Фd	0.	6	0.8			
β	1.5					
α	0.5					

■ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	60(50)	120	1K	10K	100K
3.3~47	0.70	0.85	0.90	0.95	1.00
68~330	0.75	0.90	0.95	0.98	1.00

(2) Temperature Coefficient

Ambient Temperature(℃)	40	60	70	85	105	
Coefficient	2.40	2.10	1.78	1.65	1.00	