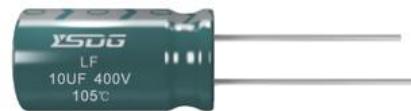


LF Series

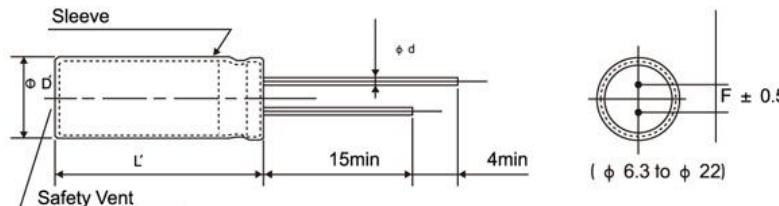
- High frequency, low impedance
- Endurance; +105 °C 2,000 ~ 3,000 hours
- RoHS Compliant



SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-25 to +105 °C (160V~450Vdc)									
Rated Voltage Range	160 to 450Vdc									
Capacitance Tolerance	$\pm 20\%(\text{M})$									
Leakage Current	1 \leq 0.02CV or 10 μ A , whichever is greater Where, I:Max.leakage current(μ A), C:Nominal capacitance(μ F) V:Rated voltage(V)									
Dissipation Factor (tan δ)	Rated voltage(Vdc)	160	200	250	350	400	450	(at 20 °C 120Hz)		
	tan δ (Max)	0.12	0.12	0.12	0.15	0.15	0.20	(at 20 °C 120Hz)		
Low Temperature Characteristics (Max.Impedance Ratio)	Rate Voltage(Vdc)	160	200	250	350	400	450	(at 120Hz)		
	Z(-25 °C)/Z(+20 °C)	3		5		6		(at 120Hz)		
Endurance	Z(-40 °C)/Z(+20 °C)	4		7		-		(at 20 °C ,after 2minutes)		
	The following specification shall be satisfied when the capacitors are restored to 20 °C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105 °C									
Shelf Life	Capacitance Change	$\leq \pm 20\%$ of the initial value				Case Dia		Life time(hours)		
	D.F. (tan δ)	$\leq 200\%$ of the initial specified value				$\Phi D \leq 8$		2000		
	Leakage Current	\leq The initial specified value				$\Phi D \geq 10$		3000		

DIMENSIONS[mm]



ΦD	6.3	8	10	12.5	16	18	22
Φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5	10.0
$\Phi D' = \Phi D + 0.5\text{max}$							
$L' = L + 2\text{max}$							

RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq (Hz)	120	1k	10k	100k
CAP(μ F)				
CAP < 18	0.59	0.85	0.97	1.00
18 \leq Cap. < 100	0.62	0.89	0.97	1.00
Cap \geq 100	0.72	0.90	0.98	1.00

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5 °C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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