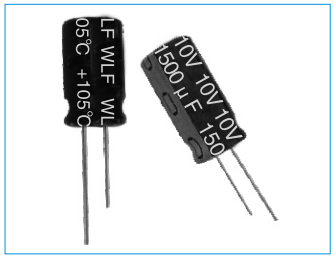
WLF Uitra Low Impedance,Miniature Series



- Uitra low impedance at high frequecy
- High reliability withstanding 2000 hours load at 105℃

RLF ⇨ **WLF**
Ultra Low imp.
Miniature

Specifications

Item	Characteristics
Operating Temperature Range	–40℃ ~ +105℃
Rated Voltage Range	6.3V~16V
Nominal Capacitance Range	470 μ F~3300 μ F
Capacitance Tolerance	M (± 20%) (20℃,120Hz)
Leakage Current	I≤0.01$C_R U_R$ or 3(μ A),whichever is greater(2min.) I≤0.03$C_R U_R$ or 4(μ A),whichever is greater(1min.) C_R:Nominal capacitance (μ F) U_R:Rated voltage(V)

Dissipation Factor (Max)

U_R	6.3	10	16
tan δ	0.22	0.19	0.16

(20℃,120Hz)

Low Temperature Stability (Impedance Ratio)

U_R	6.3	10	16
Z(–40℃) / Z(+20℃)	3	3	3

(120Hz)

Load Life

After 2000 hours'application of rated voltage with rated ripple current at 105℃, the capacitors shall meet the following requirement:

Capacitance change	Within ± 25% of the initial value .
Dissipation factor	Not more than 200% of the initial specified value.
Leakage current	Not more than the initial specified value.

Shelf Life

After storage for 1000 hours at +105℃,the capacitors shall meet the requirement of load life above .

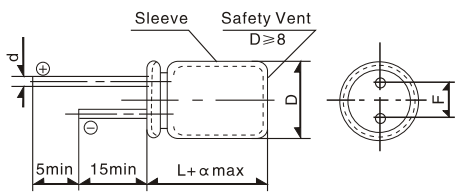
Rated Ripple Current & Frequency Multipliers

Frequency	120Hz	1kHz	10kHz	100kHz
Coefficient	0.5	0.8	0.9	1.00

Rated Ripple Current & Temperature Multipliers

Temperature	+70℃	+85℃	+105℃
Multipliers	2.00	1.70	1.00

Dimensions



(mm)

D	± 0.5			± 1.0			
	8			10			
L	11.5	15	20	12.5	16	20	25
F ± 0.5	3.5			5			
d ± 0.1	0.6						
α	1.5						2.0

WLF Series

■ Nominal capacitance,rated voltage,impedance,rated ripple current and case size table

U_R(V) / Item / C_R(μF)	6.3			10			16		
	D×L mm	Z	I~	D×L mm	Z	I~	D×L mm	Z	I~
470							8×11.5	0.036	1140
680				8×11.5	0.036	1140	8×15	0.028	1490
							10×12.5	0.026	1540
820	8×11.5	0.036	1140						
1000				8×20	0.028	1490	8×20	0.021	1870
				10×12.5	0.026	1540	10×16	0.019	2000
1200	8×15	0.028	1490						
1500	8×20	0.016	1950	8×20	0.021	1870	10×20	0.013	2550
	10×12.5	0.026	1540	10×16	0.019	2000	10×25	0.012	2800
1800	8×20	0.021	1870	10×20	0.013	2550			
	10×16	0.019	2000						
2200	10×20	0.013	2550	10×25	0.012	2800			
3300	10×25	0.012	2800						

Rated ripple current (mA rms)(105℃,100kHz)

Impedance(Ω)(20℃,100kHz)