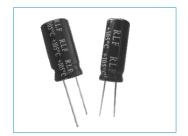
### **Aluminum Electrolytic Capacitors**



### RLF Uitra Low Impedance Series

- Ultra low impedance at high frequency
- High reliability withstanding 5000 hours load at 105℃
- For swithiching power supplies, noise filter, adapter, charger





#### Specifications

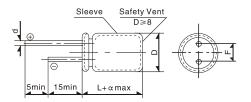
Item	Characteristics											
Operating Temperature Range	-40°C ~ +105°C											
Rated Voltage Range	6.3V~100V											
Nominal Capacitance Range	0.47 μ F~15000 μ F											
Capacitance Tolerance	M (±20%) (20°C,120Hz)											
Leakage Current	I≤0.03C <sub>R</sub> U <sub>R</sub> or 4 μ A,	I ≤ 0.01C <sub>R</sub> U <sub>R</sub> or 3 μ A,whichever is greater(2min.) I ≤ 0.03C <sub>R</sub> U <sub>R</sub> or 4 μ A,whichever is greater(1min.)  Co:Nominal capacitance (μ. F)   Up:Rated voltage(V)										
	Cn:Nominal capacitance ( μ F) Un:Rated voltage(V)											
	UR 6.3	10	16		25	35	50	63	100			
Dissipation Factor (Max)	tan δ 0.22	0.19	0.1 2 is adde		0.14 y 1000 μ	0.12 F increase	0.10 over 1000 µ	0.09 ı F.	0.08			
	0.02 is added to every 1000 μ F increase over 1000 μ F.  (20°C,120Hz)											
	U <sub>R</sub> (V)		6	5.3		10	16	25~100				
Low Temperature Stability (Impedance Ratio)	Z(-25°C) / Z(+20°C	C)		2 2		2	2		2			
,	Z(-40°C) / Z(+20°C	C)		3 3		3	3		3			
Load Life		ed ripple c	:2000hours, Φ 8:3000hours, Φ 10:4000 hours) application of current at 105°C, the capacitors shall meet the following  //ithin ± 25% of the initial value.  ot more than 200% of the initial specified value.									
Shelf Life	After storage for 1000	) hours at	+105℃,tl	he capac	itors sha	I meet the	requirement	t of load life	above .			
	Cap. Freq.	120H	20Hz 1kHz		кНz	z 10kHz		100kHz				
	6.8 μ F~33 μ F	0.42		0.	.7		0.90		00			
Rated Ripple Current &	39 μ F~270 μ F		0 0.7		.73		0.92		00			
Frequency Multipliers	330 µ F~680 µ F		55 0.7		.77		0.94		00			
	820 μ F~1800 μ F			0.	.80		0.96		00			
	2200 μ F~18000 μ F	0.7		0.	.85		0.98	1.00				
Detect Binnle Count 2	Tomorevatives		+70°	~		+85℃		. 407	- m			
Rated Ripple Current & Temperature Multipliers	Temperature							+105				
,	Multipliers		2.00	2.00			1.70 1.00					

## **Aluminum Electrolytic Capacitors**



# **RLF** Series

#### Dimensions



_		± 0.5		± 1.0										
D	5	6.3	8	10			12	2.5	16			18		
L	11	11	11.5	12.5 16 20		20	25	25	31.5	35.5	35.5	40		
F ± 0.5	2	2.5	3.5			5			7.5					
d ± 0.1	0	.5			0.	.6			0.8					
α	1.5								2.0					

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

U <sub>R</sub> (V)	0.5				10			16		25		
C <sub>R</sub> ( µ F)	D×L mm	Z	l~	D×L mm	Z	l~	D×L mm	Z	l~	D×L mm	Z	l~
4.7										5×11	0.35	250
10							5×11	0.35	250	5×11	0.35	250
22	5×11	0.35	250	5×11	0.35	250	5×11	0.35	250	5×11	0.35	250
33	5×11	0.35	250	5×11	0.35	250	5×11	0.35	250	5×11	0.35	250
47	5×11	0.30	250	5×11	0.30	250	5×11	0.30	250	5×11	0.30	250
100	5×11	0.30	250	5×11	0.30	250	6.3×11	0.15	405	6.3×11	0.15	405
150	6.3×11	0.15	405	6.3×11	0.15	405	6.3×11	0.15	405	8×11.5	0.072	760
220	6.3×11	0.15	405	6.3×11	0.15	405	8×11.5	0.072	760	8×11.5	0.072	760
330	6.3×11	0.15	405	8×11.5	0.072	760	8×11.5	0.072	760	10×12.5	0.053	1030
470	8×11.5	0.072	760	8×11.5	0.072	760	10×12.5	0.053	1030	10×16	0.038	1430
680	10×12.5	0.053	1030	10×12.5	0.053	1030	10×16	0.038	1430	10×20	0.027	1820
1000	10×12.5	0.053	1030	10×16	0.038	1430	10×20	0.027	1820	12.5×20	0.025	2360
1500	10×20	0.027	1820	10×20	0.027	1820	12.5×20	0.025	2360	16×20	0.015	3460
2200	12.5×20	0.025	2360	12.5×20	0.025	2360	12.5×25	0.018	2770	16×25	0.015	3460
3300	12.5×20	0.025	2360	12.5×25	0.018	2770	16×25	0.015	3460	16×31.5	0.015	3680
4700	16×25	0.015	3460	16×25	0.015	3460	16×31.5	0.015	3680	18×35.5	0.014	3800
6800	16×25	0.015	3460	16×31.5	0.015	3680	18×35.5	0.014	3800			
10000	16×31.5	0.015	3680	18×35.5	0.014	3800	↑ Rated ripple current					mA rms )
15000	18×35.5	0.014	3800				(105°C,100kHz)			Hz)	•	
							- Impedance(Ω)(20°C,10					z)

## **Aluminum Electrolytic Capacitors**



# RLF Series

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

U <sub>R</sub> (V)	35				50			63		100		
Item C <sub>R</sub> ( μ F)	D×L mm	Z	l~	D×L mm	Z	l~	D×L mm	Z	l~	D×L mm	Z	l~
0.47				5×11	2.0	250						
1.0				5×11	2.0	250						
2.2				5×11	2.0	250				5×11	2.0	125
3.3				5×11	1.0	250	5×11	2.0	165	5×11	2.0	125
4.7	5×11	0.35	250	5×11	1.0	250	5×11	2.0	165	5×11	2.0	125
10	5×11	0.35	250	5×11	0.50	250	5×11	0.45	165	6.3×11	0.50	205
22	5×11	0.35	250	5×11	0.26	250	6.3×11	0.30	265	8×11.5	0.30	355
33	5×11	0.30	250	6.3×11	0.17	405	6.3×11	0.30	265	10×12.5	0.25	450
47	6.3×11	0.15	405	6.3×11	0.14	405	8×11.5	0.20	500	10×16	0.20	580
100	8×11.5	0.072	760	8×11.5	0.072	760	10×16	0.10	945	12.5×20	0.10	1045
150	8×11.5	0.072	760	10×12.5	0.061	1030	10×20	0.08	1100	12.5×25	0.070	1195
220	10×12.5	0.053	1030	10×16	0.038	1430	10×25	0.07	1300	16×25	0.060	1600
330	10×16	0.038	1430	10×20	0.027	1820	12.5×20	0.04	1495	16×31.5	0.040	1750
470	10×20	0.027	1820	12.5×20	0.025	2360	16×20	0.035	1990	18×40	0.030	2060
680	12.5×20	0.025	2360	12.5×25	0.020	2770	16×25	0.030	2780			
1000	12.5×25	0.018	2770	16×25	0.018	3460	16×35.5	0.020	2835			
1500	16×25	0.015	3460	16×31.5	0.015	3680		<b>†</b>	t R	ated ripple	current (r	nΔ rme )
2200	16×31.5	0.015	3680	18×35.5	0.014	3800			L (1	05°C,100kl	Hz)	117.111113 )
3300	18×35.5	0.014	3800						— Impeda	ance(Ω)(20	°C,100kH	z)
									•	. , (		