RF series

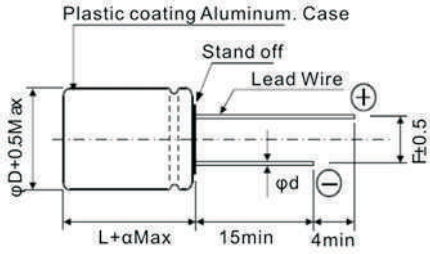
Super long life to 5000hrs

It's a super long life series based on our RL series.
Suitable for use with long duration eletronic device, motherboard, servers, VGA, etc.
Lead free-flow is supported.
RF系列具有5000小時超長壽命，以及超低ESR和超大紋波電流，適合用於長時間工作的電子設備、電腦主機板、伺服器、顯卡等。

Specifications

Items	Characteristics	
Operating Temp. Range	-55℃ ~ +105℃	
Capacitance Range	100 ~ 2700μF	
Capacitance Tolerance	M：±20%	
Rated Voltage Range	2.5V ~ 16V DC	
Dissipation Factor At 120Hz,20℃	Not to exceed the value specified	
Leakage Current	≤0.02CV (μA, after 2 minutes)	
ESR(100K~300KHz)	Not to exceed the value specified	
Endurance 105℃ 5000h At Rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored At 60℃, RH90~95%,2000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Dimensions



Unit:mm

φD×L	ΦD +0.5max.	α	F ±0.5	Φd ±0.05
6.3×8	6.3	1.0	2.5	0.6
6.3×11	6.3	1.0	2.5	0.6
8×8	8.0	1.0	3.5	0.6
8×11.5	8.0	1.0	3.5	0.6
10×12.5	10.0	1.0	5.0	0.6

Size List

CAP/μF \ RV/v (SV)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
100					6.3×8
180					6.3×8
220					6.3×11/8×8
270					8×8/8×11.5
330					8×11.5 / 10×12.5
390					8×11.5 / 10×12.5
470			6.3×8	8×8	8×11.5 / 10×12.5
560		6.3×8	6.3×8/8×8	8×8	10×12.5
680		8×8	6.3×8/ 8×8	8×11.5	10×12.5
820	6.3×8	8×8	8×8/8×11.5	8×11.5 / 10×12.5	10×12.5
1000	8×8	8×8	8×8/8×11.5	10×12.5	
1200	8×8	8×11.5 / 10×12.5	8×11.5 / 10×12.5	10×12.5	
1500	8×11.5	10×12.5	10×12.5		
2000	10×12.5	10×12.5			
2500	10×12.5				

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Characteristics List

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size ΦD×L (mm)	Part Number
2.5	820	410	0.08	8	5600	6.3×8	RF821M2R5E080□□
	1200	600	0.08	7	6100	8×8	RF122M2R5F080□□
	1500	750	0.08	7	6100	8×11.5	RF152M2R5F115□□
	2000	1000	0.08	7	6640	10×12.5	RF202M2R5G125□□
	2500	1250	0.08	7	6640	10×12.5	RF252M2R5G125□□
	2700	1350	0.08	7	6640	10×12.5	RF272M2R5G125□□
4	560	448	0.08	8	5600	6.3×8	RF561M004E080□□
	680	544	0.08	7	6100	8×8	RF681M004F080□□
	820	656	0.08	7	6100	8×8	RF821M004F080□□
	1000	800	0.08	7	6100	8×8	RF102M004F080□□
	1200	960	0.08	7	6100	8×11.5	RF122M004F115□□
	1200	960	0.08	7	6640	10×12.5	RF122M004G125□□
	1500	1200	0.08	7	6640	10×12.5	RF152M004G125□□
	2000	1600	0.08	7	6640	10×12.5	RF202M004G125□□
6.3	470	592.2	0.08	8	5600	6.3×8	RF471M6R3E080□□
	560	705.6	0.08	8	5600	6.3×8	RF561M6R3E080□□
	680	856.8	0.08	8	5600	6.3×8	RF681M6R3E080□□
	820	1033.2	0.10	7	6100	8×8	RF821M6R3F080□□
	820	1033.2	0.10	7	6100	8×11.5	RF821M6R3F115□□
	1000	1260	0.10	7	6100	8×8	RF102M6R3F080□□
	1000	1260	0.10	7	6100	8×11.5	RF102M6R3F115□□
	1200	1512	0.10	7	6100	8×11.5	RF122M6R3F115□□
	1200	1512	0.10	7	6640	10×12.5	RF122M6R3G125□□
	1500	1890	0.10	7	6640	10×12.5	RF152M6R3G125□□
10	470	940	0.08	7	6100	8×8	RF471M010F080□□
	560	1120	0.10	7	6100	8×8	RF561M010F080□□
	680	1360	0.10	7	6100	8×11.5	RF681M010F115□□
	820	1640	0.10	7	6100	8×11.5	RF821M010F115□□
	820	1640	0.10	7	6640	10×12.5	RF821M010G125□□
	1000	2000	0.10	7	6640	10×12.5	RF102M010G125□□
	1200	2400	0.10	7	6640	10×12.5	RF122M010G125□□
16	100	320	0.12	12	2900	6.3×8	RF101M016E080□□
	180	576	0.12	13	2900	6.3×8	RF181M016E080□□
	220	704	0.12	13	3500	6.3×11	RF221M016E110□□
	270	864	0.12	13	4100	8×8	RF271M016F080□□
	330	1056	0.12	13	5600	8×11.5	RF331M016F115□□
	330	1056	0.12	12	6100	10×12.5	RF331M016G125□□
	390	1248	0.12	13	5600	8×11.5	RF391M016F115□□
	390	1248	0.12	12	6100	10×12.5	RF391M016G125□□
	470	1504	0.12	13	5600	8×11.5	RF471M016F115□□
	470	1504	0.12	12	6100	10×12.5	RF471M016G125□□
	560	1792	0.12	12	6100	10×12.5	RF561M016G125□□
	680	2176	0.12	12	6100	10×12.5	RF681M016G125□□
	820	2624	0.12	12	6100	10×12.5	RF821M016G125□□

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.3	0.7	1