

RL series

Features

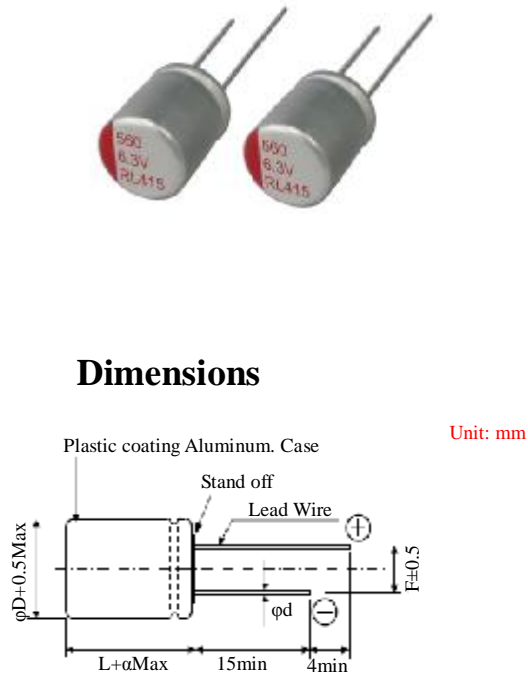
- ◆ Super low ESR , Large ripple current to 2000 hours at 105℃.
- ◆ It’s a super low ESR and large permissible ripple current series based on our RG and RS series.
- ◆ Suitable for use with motherboard, servers, VGA, etc.
- ◆ Lead free-flow is supported.
- ◆ RoHS Compliant.

Specifications

Items	Characteristics	
Operating Temp. Range	-55℃～+105℃	
Capacitance Range	220～3500μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	2.5V～10V dc	
Dissipation Factor (at 120Hz,20℃)	Not to exceed the value specified	
Leakage Current	≤0.2CV (μA, after 2 minutes)	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105℃ , 2000h , at rated voltage	Capacitance	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	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

Size List

RV/v (SV) CAP/μF	2.5 (2.8)	4 (4.6)	6.3 (7.2)	7.5 (8.6) <i>NEW</i>	10 (11.5)
220					6.3×8
270			6.3×8	6.3×8	6.3×8
330			6.3×8	6.3×8	6.3×8 / 8×8
390			6.3×8 / 8×8	6.3×8 / 8×8	6.3×11/8×8
470			6.3×8 /8×8	6.3×8 /8×8	6.3×11/8×8
560	6.3×8 / 8×8	6.3×8 / 8×8	6.3×8 /8×8	6.3×8 /8×8	8×8/8×11.5
680	6.3×8 / 8×8	8×8 / 8×11.5	6.3×8/8×8	6.3×11/8×8	8×8/8×11.5
820	6.3×8 / 8×8	8×8 / 8×11.5	6.3×11/8×8/ 10×12.5	6.3×11/8×8	8×8/8×11.5/10×12.5
1000	8×8/8×11.5	8×8 / 8×11.5	8×8/8×11.5/ 10×12.5	8×8/8×11.5/ 10×12.5	8×11.5/10×12.5
1200	8×8/8×11.5	8×11.5 / 10×12.5	8×11.5 / 10×12.5	8×11.5 / 10×12.5	10×12.5
1500	8×11.5	8×11.5 / 10×12.5	8×11.5 / 10×12.5	10×12.5	10×12.5
2000	10×12.5	10×12.5	10×12.5		
2500	10×12.5	10×12.5			
2700	10×12.5				
3300	10×12.5				
3500	10×12.5				



Dimensions

Unit: mm

$\phi D \times L$	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

Characteristics List

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20℃)	ESR (m Ω ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size Φ D×L(mm)	Part Number
2.5	560	280	0.08	7	5600	6.3×8	RL561M2R5E080□□
	560	280	0.08	7	6100	8×8	RL561M2R5F080□□
	680	340	0.08	7	5600	6.3×8	RL681M2R5E080□□
	680	340	0.08	7	6100	8×8	RL681M2R5F080□□
	820	410	0.08	7	5600	6.3×8	RL821M2R5E080□□
	820	410	0.08	7	6100	8×8	RL821M2R5F080□□
	1000	500	0.08	7	6100	8×8	RL102M2R5F080□□
	1000	500	0.08	7	6100	8×11.5	RL102M2R5F115□□
	1200	600	0.08	7	6100	8×8	RL122M2R5F080□□
	1200	600	0.08	7	6100	8×11.5	RL122M2R5F115□□
	1500	750	0.08	7	6100	8×11.5	RL152M2R5F115□□
	2000	1000	0.08	7	6640	10×12.5	RL202M2R5G125□□
	2500	1250	0.08	7	6640	10×12.5	RL252M2R5G125□□
	2700	1350	0.08	7	6640	10×12.5	RL272M2R5G125□□
	3000	1500	0.08	7	6640	10×12.5	RL302M2R5G125□□
	3300	1650	0.08	7	6640	10×12.5	RL332M2R5G125□□
	3500	1750	0.08	7	6640	10×12.5	RL352M2R5G125□□
4	560	448	0.08	8	5600	6.3×8	RL561M004E080□□
	560	448	0.08	7	6100	8×8	RL561M004F080□□
	680	544	0.08	7	6100	8×8	RL681M004F080□□
	680	544	0.08	7	6100	8×11.5	RL681M004F115□□
	820	656	0.08	7	6100	8×8	RL821M004F080□□
	820	656	0.08	7	6100	8×11.5	RL821M004F115□□
	1000	800	0.08	7	6100	8×8	RL102M004F080□□
	1000	800	0.08	7	6100	8×11.5	RL102M004F115□□
	1200	960	0.08	7	6100	8×11.5	RL122M004F115□□
	1200	960	0.08	7	6640	10×12.5	RL122M004G125□□
	1500	1200	0.08	7	6100	8×11.5	RL152M004F115□□
	1500	1200	0.08	7	6640	10×12.5	RL152M004G125□□
	2000	1600	0.08	7	6640	10×12.5	RL202M004G125□□
	2500	2000	0.08	7	6640	10×12.5	RL252M004G125□□
6.3	270	340.2	0.08	8	5600	6.3×8	RL271M6R3E080□□
	330	415.8	0.08	8	5600	6.3×8	RL331M6R3E080□□
	390	491.4	0.08	8	5600	6.3×8	RL391M6R3E080□□
	390	491.4	0.08	7	6100	8×8	RL391M6R3F080□□
	470	592.2	0.08	8	5600	6.3×8	RL471M6R3E080□□
	470	592.2	0.08	7	6100	8×8	RL471M6R3F080□□
	560	705.6	0.08	8	5600	6.3×8	RL561M6R3E080□□
	560	705.6	0.08	7	6100	8×8	RL561M6R3F080□□
	680	856.8	0.08	8	5600	6.3×8	RL681M6R3E080□□
	680	856.8	0.08	7	6100	8×8	RL681M6R3F080□□
	820	1033.2	0.08	7	5800	6.3×11	RL821M6R3E110□□
	820	1033.2	0.08	7	6100	8×8	RL821M6R3F080□□
	820	1033.2	0.08	7	6640	10×12.5	RL821M6R3G125□□
	1000	1260	0.08	7	6100	8×8	RL102M6R3F080□□
	1000	1260	0.08	7	6100	8×11.5	RL102M6R3F115□□
	1000	1260	0.08	7	6640	10×12.5	RL102M6R3G125□□
	1200	1512	0.08	7	6100	8×11.5	RL122M6R3F115□□
	1200	1512	0.08	7	6640	10×12.5	RL122M6R3G125□□
	1500	1890	0.08	7	6100	8×11.5	RL152M6R3F115□□
	2000	2520	0.08	7	6640	10×12.5	RL202M6R3G125□□

Characteristics List

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20℃)	ESR (m Ω ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size Φ D×L (mm)	Part Number
7.5	270	405	0.08	8	5600	6.3×8	RL271M7R5E080□□
	330	495	0.08	8	5600	6.3×8	RL331M7R5E080□□
	390	585	0.08	8	5600	6.3×8	RL391M7R5E080□□
	390	585	0.08	7	6100	8×8	RL391M7R5F080□□
	470	705	0.08	8	5600	6.3×8	RL471M7R5E080□□
	470	705	0.08	7	6100	8×8	RL471M7R5F080□□
	560	840	0.08	8	5600	6.3×8	RL561M7R5E080□□
	560	840	0.08	7	6100	8×8	RL561M7R5F080□□
	680	1020	0.08	7	5800	6.3×11	RL681M7R5E110□□
	680	1020	0.08	7	6100	8×8	RL681M7R5F080□□
	820	1230	0.08	7	5800	6.3×11	RL821M7R5E110□□
	820	1230	0.08	7	6100	8×8	RL821M7R5F080□□
	820	1230	0.08	7	6640	10×12.5	RL821M7R5G125□□
	1000	1500	0.08	7	6100	8×8	RL102M7R5F080□□
	1000	1500	0.08	7	6100	8×11.5	RL102M7R5F115□□
	1000	1500	0.08	7	6640	10×12.5	RL102M7R5G125□□
	1200	1800	0.08	7	6100	8×11.5	RL122M7R5F115□□
	1200	1800	0.08	7	6640	10×12.5	RL122M7R5G125□□
	1500	2250	0.08	7	6100	10×12.5	RL152M7R5G125□□
10	220	440	0.08	8	5600	6.3×8	RL221M010E080□□
	270	540	0.08	8	5600	6.3×8	RL271M010E080□□
	330	660	0.08	8	5600	6.3×8	RL331M010E080□□
	330	660	0.08	7	6100	8×8	RL331M010F080□□
	390	780	0.08	7	5800	6.3×11	RL391M010E110□□
	390	780	0.08	7	6100	8×8	RL391M010F080□□
	470	940	0.08	7	5800	6.3×11	RL471M010E110□□
	470	940	0.08	7	6100	8×8	RL471M010F080□□
	560	1120	0.10	7	6100	8×8	RL561M010F080□□
	560	1120	0.10	7	6100	8×11.5	RL561M010F115□□
	680	1360	0.10	7	6100	8×8	RL681M010F080□□
	680	1360	0.10	7	6100	8×11.5	RL681M010F115□□
	820	1640	0.10	7	6100	8×8	RL821M010F080□□
	820	1640	0.10	7	6100	8×11.5	RL821M010F115□□
	820	1640	0.10	7	6640	10×12.5	RL821M010G125□□
	1000	2000	0.10	7	6100	8×11.5	RL102M010F115□□
	1000	2000	0.10	7	6640	10×12.5	RL102M010G125□□
	1200	2400	0.10	7	6640	10×12.5	RL122M010G125□□
	1500	3000	0.10	7	6640	1	RL152M010G125□□

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.30	0.70	1.00