

RLL series

- Longer life cycle than RL series
- Super low ESR at a high frequency
- High ripple current



Specifications

Items	Characteristics	
Temperature range	-55°C ~ +105°C	
Rated voltage range	2.5Vdc ~ 16.0Vdc	
Capacitance range	100μF ~ 3,500μF	
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)	
Tangent of loss angle	Less than or equal to the value of STANDARD RATING (at 20°C, 120Hz)	
Leakage current	Less than or equal to the value of STANDARD RATING (at 20°C, after 2 minutes)	
ESR	Less than or equal to the value of STANDARD RATING	
Characteristics of impedance	Z _{+105°C} / Z _{+20°C} ≤ 1.25, Z _{-55°C} / Z _{+20°C} ≤ 1.25 at 100kHz	
Endurance	105°C, 5,000 hrs at rated voltage	
	Appearance	No significant damage
	Capacitance change	Within±20% of the initial value
	Tangent of loss angle (tanδ)	≤150% of the initial specified value
	ESR(mΩ)	≤150% of the initial specified value
	Leakage current	≤The initial specified value
Damp Heat (Steady state)	60°C, 90 to 95% RH, 1000 hrs, No-applied Voltage	
	Appearance	No significant damage
	Capacitance change	Within±20% of the initial value
	Tangent of loss angle (tanδ)	≤150% of the initial specified value
	ESR(mΩ)	≤150% of the initial specified value
	Leakage current	≤The initial specified value
Resistance to soldering heat	Flow method (260±5°C, 10s)	
	Appearance	No significant damage
	Capacitance change	Within±10% of the initial value
	Tangent of loss angle (tanδ)	≤130% of the initial specified value
	ESR(mΩ)	≤130% of the initial specified value
	Leakage current	≤The initial specified value

* In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C

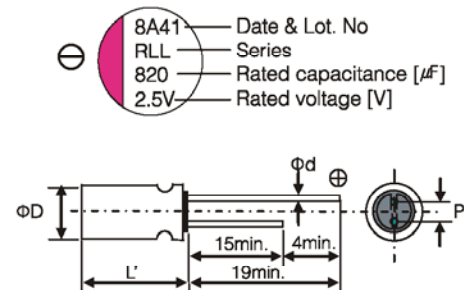
Dimensions

(unit : mm)

RV μF	2.5(3.3)	4(5.2)	6.3(8.2)	10(11.5)	16(18.4)
100					6.3x8.0, 6.3x11.5
150				6.3x8.0	
180					8.0x9.0, 8.0x11.5
270					8.0x9.0, 8.0x11.5
330					8.0x9.0, 8.0x11.5
470			8.0x9.0, 8.0x11.5		10x11.5
560	6.3x8.0, 8.0x9.0	6.3x8.0, 8.0x9.0 8.0x11.5	6.3x8.0 8.0x9.0		
680		8.0x11.5	10x11.5	8.0x11.5	
820	6.3x8.0, 8.0x9.0 8.0x11.5	10x11.5	8.0x9.0 8.0x11.5		
1000	8.0x9.0	8.0x9.0, 10x11.5			
1200		8.0x9.0			
1500	8.0x9.0		10x11.5		
2700	10x11.5				
3500	10x11.5				

RV:Rated voltage [V] SV:Surge voltage [V] (at room temperature)

Marking and Size list



Size	ΦD±0.5	L	L'	P±0.5	Φd
6.3x8.0	6.3	8.0	L+1.0max	2.5	0.5
6.3x11.5	6.3	11.5		2.5	0.5
8.0x9.0	8.0	9.0	Lmax	3.5	0.6
8.0x11.5	8.0	11.5	L+1.0max	3.5	0.6
10.0x11.5	10.0	11.5		5.0	0.6

Standard ratings

Rated Voltage [Vdc]	Rated Capacitance [μ F]	Size Φ D x L [mm]	ESR (20°C, 100kHz) [m Ω][max.]	Rated Ripple Current (105°C, 100kHz) [mA rms, max.]	Tangent of Loss Angle [max.]	Leakage Current [μ A, max.]	Part Number
2.5	560	6.3x8.0	7	3500	0.10	500	2RLL560MC8
	560	8.0x9.0	7	6100	0.10	280	2RLL560MD9
	820	6.3x8.0	7	3500	0.10	500	2RLL820MC8
	820	8.0x9.0	7	6100	0.10	410	2RLL820MD9
	820	8.0x11.5	7	6100	0.10	410	2RLL820MD11
	1000	8.0x9.0	7	6100	0.10	500	2RLL1000MD9
	1500	8.0x9.0	7	6100	0.10	750	2RLL1500MD9
	2700	10x11.5	10	5560	0.10	1350	2RLL2700ME11
	3500	10x11.5	10	5560	0.10	1750	2RLL3500ME11
4	560	6.3x8.0	7	3500	0.10	500	4RLL560MC8
	560	8.0x9.0	7	6100	0.10	448	4RLL560MD9
	560	8.0x11.5	7	6100	0.10	448	4RLL560MD11
	680	8.0x11.5	7	6100	0.10	544	4RLL680MD11
	820	10x11.5	7	6640	0.10	656	4RLL820ME11
	1000	8.0x9.0	7	6100	0.10	800	4RLL1000MD9
	1000	10x11.5	7	6640	0.10	800	4RLL1000ME11
	1200	8.0x9.0	7	6100	0.10	960	4RLL1200MD9
6.3	470	8.0x9.0	7	5700	0.10	592	6RLL470MD9
	470	8.0x11.5	7	5700	0.10	592	6RLL470MD11
	560	6.3x8.0	7	3500	0.10	705	6RLL560MC8
	560	8.0x9.0	7	5700	0.10	705	6RLL560MD9
	680	10x11.5	7	6640	0.10	857	6RLL680ME11
	820	8.0x9.0	7	5700	0.10	1033	6RLL820MD9
	820	8.0x11.5	7	5700	0.10	1033	6RLL820MD11
	1500	10x11.5	10	5560	0.10	1890	6RLL1500ME11
10	150	6.3x8.0	27	3500	0.10	300	10RLL150MC8
	680	8.0x11.5	20	5700	0.10	1360	10RLL680MD11
16	100	6.3x8.0	25	2700	0.10	320	16RLL100MC8
	100	6.3x11.5	25	2820	0.10	320	16RLL100MC11
	180	8.0x9.0	13	5000	0.10	576	16RLL180MD9
	180	8.0x11.5	16	4360	0.10	576	16RLL180MD11
	270	8.0x9.0	11	4520	0.10	864	16RLL270MD9
	270	8.0x11.5	11	5000	0.10	864	16RLL270MD11
	330	8.0x9.0	11	4520	0.10	1056	16RLL330MD9
	330	8.0x11.5	11	5000	0.10	1056	16RLL330MD11
	470	10x11.5	10	6100	0.10	1504	16RLL470ME11