

RLH

Radial Lead Type
series

Higher temperature endurance
guaranteed than RL series
Super low ESR, High ripple current
Large capacitance, Small size
Load life of 1,000h at 125°C



• Specifications

Items	Characteristics	
Temperature range	-55 to +125°C	
Rated voltage range	2.5 to 16Vdc	
Capacitance range	100 to 3,500µF	
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)	
Tangent of loss angle	Less than or equal to the value of Standard Ratings (at 20°C, 120Hz)	
Leakage current	Less than or equal to the value of Standard Ratings (at 20°C, after 2 minutes)	
ESR	Less than or equal to the value of Standard Ratings	
Characteristics of impedance	$Z_{+125^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25, Z_{-55^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$ at 100kHz	
Endurance	125°C, 1,000 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, 1,000 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 125°C

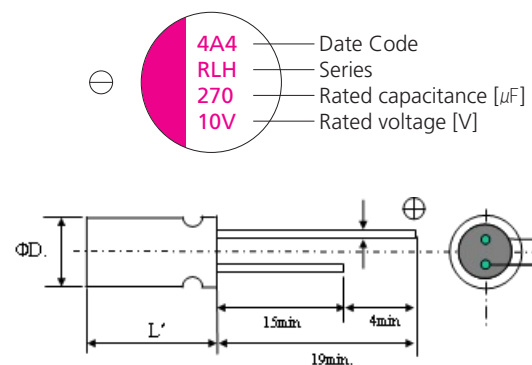
• Size List

(unit: mm)

RV (SV) µF	2.5 (2.9)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
100					6.3×6 / 6.3×9
150				6.3×6	8×7
180					8×9 8×11.5
220	5×9		6.3×6		8×7
270				8×7	8×9 8×11.5
330	5×9 6.3×9				8×9 8×11.5
470	5×9		6.3×9 / 8×9 8×11.5		10×11.5
560	5×9 / 6.3×9 8×9	6.3×9 / 8×9 8×11.5	6.3×9 8×9		
680		8×11.5	10×11.5		
820	6.3×9 / 8×7 8×9 / 8×11.5	10×11.5	8×9 8×11.5		
1000	8×9	8×9 10×11.5			
1200		8×9			
1500	8×9		10×11.5		
2700	10×11.5				
3500	10×11.5				

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

• Marking and Dimensions



(unit: mm)

Size	ØD±0.5	L	L'	P±0.5	Ød
5×9	5.0	9.0	L max.	2.0	0.6
6.3×6	6.3	6.0		2.5	0.45
8×7	8.0	7.0		3.5	0.45
6.3×9	6.3	9.0		2.5	0.6
8×9	8.0	9.0	L + 1.0 max.	3.5	0.6
8×11.5	8.0	11.5		3.5	0.6
10×11.5	10.0	11.5		5.0	0.6

• Standard Ratings

Rated Voltage [Vdc]	Rated Capacitance [μF]	Size ØD x L [mm]	ESR (20°C, 100kHz) [mΩ] [max.]	Rated Ripple Current (100kHz)[mArms]		Tangent of Loss Angel [max.]	Leakage Current [μA, max.]	Part Number
				-55 to +105°C	+105 to +125°C			
2.5	220	5 x 9	7	4180	1323	0.10	500	2RLH220MB9
	330	5 x 9	7	4180	1323	0.10	500	2RLH330MB9
	330	6.3 x 9	7	5600	1772	0.10	500	2RLH330MC9
	470	5 x 9	7	4180	1323	0.10	500	2RLH470MB9
	560	5 x 9	7	4180	1323	0.10	500	2RLH560MB9
	560	6.3 x 9	7	5600	1772	0.10	500	2RLH560MC9
	560	8 x 9	7	6100	1930	0.10	500	2RLH560MD9
	820	6.3 x 9	7	5600	1772	0.10	500	2RLH820MC9
	820	8 x 7	8	5300	1677	0.10	500	2RLH820MD7
	820	8 x 9	7	6100	1930	0.10	500	2RLH820MD9
	820	8 x 11.5	7	6100	1930	0.10	500	2RLH820MD11
	1000	8 x 9	7	6100	1930	0.10	500	2RLH1000MD9
	1500	8 x 9	7	6100	1930	0.10	750	2RLH1500MD9
	2700	10 x 11.5	10	5560	1759	0.10	1350	2RLH2700ME11
	3500	10 x 11.5	10	5560	1759	0.10	1750	2RLH3500ME11
	4	560	6.3 x 9	7	5600	1772	0.10	500
560		8 x 9	7	6100	1930	0.10	500	4RLH560MD9
560		8 x 11.5	7	6100	1930	0.10	500	4RLH560MD11
680		8 x 11.5	7	6100	1930	0.10	544	4RLH680MD11
820		10 x 11.5	7	6640	2101	0.10	656	4RLH820ME11
1000		8 x 9	7	6100	1930	0.10	800	4RLH1000MD9
1000		10 x 11.5	7	6640	2101	0.10	800	4RLH1000ME11
1200		8 x 9	7	6100	1930	0.10	960	4RLH1200MD9
6.3	220	6.3 x 6	18	2980	943	0.10	277	6RLH220MC6
	470	6.3 x 9	7	5600	1772	0.10	592	6RLH470MC9
	470	8 x 9	7	5700	1803	0.10	592	6RLH470MD9
	470	8 x 11.5	7	5700	1803	0.10	592	6RLH470MD11
	560	6.3 x 9	7	5600	1772	0.10	705	6RLH560MC9
	560	8 x 9	7	5700	1803	0.10	705	6RLH560MD9
	680	10 x 11.5	7	6640	2101	0.10	857	6RLH680ME11
	820	8 x 9	7	5700	1803	0.10	1033	6RLH820MD9
	820	8 x 11.5	7	5700	1803	0.10	1033	6RLH820MD11
	1500	10 x 11.5	10	5560	1759	0.10	1890	6RLH1500ME11
10	150	6.3 x 6	26	2400	759	0.10	300	10RLH150MC6
	270	8 x 7	22	3220	1019	0.10	500	10RLH270MD7
	100	6.3 x 6	24	2490	788	0.10	100	16RLH100MC6
	100	6.3 x 9	10	4680	1481	0.10	100	16RLH100MC9
	150	8 x 7	22	3220	1019	0.10	150	16RLH150MD7
	180	8 x 9	10	5000	1582	0.10	180	16RLH180MD9
	180	8 x 11.5	16	4360	1380	0.10	180	16RLH180MD11
16	220	8 x 7	13	4150	1313	0.10	220	16RLH220MD7
	270	8 x 9	10	5000	1582	0.10	270	16RLH270MD9
	270	8 x 11.5	11	5000	1582	0.10	270	16RLH270MD11
	330	8 x 9	11	4520	1430	0.10	330	16RLH330MD9
	330	8 x 11.5	11	5000	1582	0.10	330	16RLH330MD11
470	10 x 11.5	10	6100	1930	0.10	470	16RLH470ME11	

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
Radial Lead Type

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
SMD Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_Radial Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_SMD Lead Type