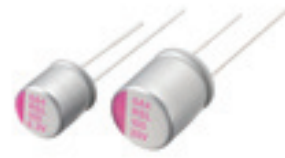


# RSL series

Radial Lead Type

- Low ESR, High ripple current
- Load life of 5,000h at 105°C



## SPECIFICATIONS

Items	Characteristics	
Temperature range	-55 to +105°C	
Rated voltage range	2.5 to 25Vdc	
Capacitance range	6.8 to 1,500μF	
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 <sub>+105°C</sub> /Z <sub>+20°C</sub> ≤ 1.25, Z <sub>-55°C</sub> /Z <sub>+20°C</sub> ≤ 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
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
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

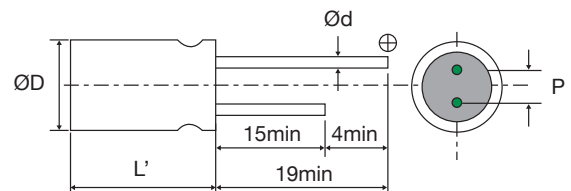
## SIZE LIST

(unit : mm)

μF	RV(SV)	2.5 (3.3)	4 (5.2)	6.3 (8.2)	10 (11.5)	16 (18.4)	20 (23.0)	25 (28.7)
6.8								6.3 x 6
10								8 x 7
22							6.3 x 6	10 x 8
33							8 x 7	8 x 11.5
39						6.3 x 6		
47						6.3 x 6	8 x 7	
56					6.3 x 6		10 x 8	10 x 11.5
68							10 x 8	
82				6.3 x 6		8 x 7		
100		6.3 x 6	6.3 x 6			8 x 7	10 x 8 8 x 11.5	8 x 11.5
120					8 x 7			
150		6.3 x 6	8 x 7	8 x 7	10 x 8	10 x 11.5	10 x 11.5	10 x 11.5
180						8 x 11.5		
220		8 x 7	8 x 7					
270					10 x 8			
330		8 x 7	10 x 8	8 x 11.5	10 x 11.5			
470		10 x 8	8 x 11.5		10 x 11.5			
560		8 x 11.5		10 x 11.5				
680	8 x 11.5	10 x 8						
820			10 x 11.5					
1000			10 x 11.5					
1200		10 x 11.5						
1500	10 x 1.5							

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

## MARKING AND DIMENSIONS



(unit : mm)

Size	∅D±0.5	L	L'	P±0.5	∅d
6.3 x 6	6.3	6.0		2.5	0.45
8 x 7	8.0	7.0	L max.	3.5	0.45
10 x 8	10.0	8.0		5.0	0.60
8 x 11.5	8.0	11.5	L+1.0max.	3.5	0.60
10 x 11.5	10.0	11.5		5.0	0.60

# Conductive Polymer Aluminum Capacitors

## STANDARD RATINGS

Rated Voltage [Vdc]	Rated Capacitance [ $\mu$ F]	Size $\Phi$ D x L [mm]	ESR (20°C, 100kHz) [m $\Omega$ ] [max.]	Rated Ripple Current (105°C, 100kHz) [mA <sub>rms</sub> ]	Tangent of Loss Angel [max.]	Leakage Current [ $\mu$ A, max.]	Part Number
2.5	680	8 x 11.5	13	4520	0.10	340	2RSL680MD11
	1500	10 x 11.5	13	5440	0.10	750	2RSL1500ME11
4	100	6.3 x 6	40	1810	0.10	200	4RSL100MC6
	150	6.3 x 6	40	1810	0.10	300	4RSL150MC6
	220	8 x 7	35	2560	0.10	440	4RSL220MD7
	330	8 x 7	35	2560	0.10	660	4RSL330MD7
	470	10 x 8	25	3700	0.10	376	4RSL470ME8
	560	8 x 11.5	13	4520	0.10	448	4RSL560MD11
	680	10 x 8	25	3700	0.10	544	4RSL680ME8
	1200	10 x 11.5	13	5440	0.10	960	4RSL1200ME11
6.3	82	6.3 x 6	45	1700	0.10	258	6RSL82MC6
	100	6.3 x 6	40	1810	0.10	315	6RSL100MC6
	150	8 x 7	35	2560	0.10	472	6RSL150MD7
	220	8 x 7	35	2560	0.10	693	6RSL220MD7
	330	10 x 8	25	3700	0.10	416	6RSL330ME8
	470	8 x 11.5	15	4210	0.10	592	6RSL470MD11
	820	10 x 11.5	12	5440	0.10	1033	6RSL820ME11
	1000	10 x 11.5	12	5440	0.10	1260	6RSL1000ME11
10	56	6.3 x 6	45	1700	0.10	280	10RSL56MC6
	120	8 x 7	35	2560	0.10	600	10RSL120MD7
	150	8 x 7	35	2560	0.10	750	10RSL150MD7
	270	10 x 8	25	3700	0.10	540	10RSL270ME8
	330	8 x 11.5	17	3950	0.10	660	10RSL330MD11
	560	10 x 11.5	13	5230	0.10	1120	10RSL560ME11
16	39	6.3 x 6	50	1620	0.10	312	16RSL39MC6
	47	6.3 x 6	50	1620	0.10	376	16RSL47MC6
	82	8 x 7	40	2120	0.10	656	16RSL82MD7
	100	8 x 7	40	2120	0.10	800	16RSL100MD7
	150	10 x 8	30	3020	0.10	480	16RSL150ME8
	180	8 x 11.5	20	3640	0.10	576	16RSL180MD11
	330	10 x 11.5	16	4720	0.10	1056	16RSL330ME11
	470	10 x 11.5	16	4720	0.10	1504	16RSL470ME11
20	22	6.3 x 6	60	1450	0.10	220	20RSL22MC6
	33	8 x 7	45	1890	0.10	330	20RSL33MD7
	47	8 x 7	45	1890	0.10	470	20RSL47MD7
	56	10 x 8	40	2400	0.10	224	20RSL56ME8
	68	10 x 8	40	2400	0.10	272	20RSL68ME8
	100	10 x 8	35	2570	0.10	400	20RSL100ME8
	100	8 x 11.5	24	3320	0.10	400	20RSL100MD11
	150	10 x 11.5	20	4320	0.10	600	20RSL150ME11
25	6.8	6.3 x 6	80	1200	0.10	170	25RSL6R8MC6
	10	8 x 7	60	1500	0.10	250	25RSL10MD7
	22	10 x 8	50	2000	0.10	275	25RSL22ME8
	33	8 x 11.5	30	2980	0.10	413	25RSL33MD11
	56	10 x 11.5	28	3800	0.10	700	25RSL56ME11
	100	8 x 11.5	30	3320	0.10	500	25RSL100MD11
	150	10 x 11.5	25	4320	0.10	750	25RSL150ME11