



## • Specifications

Items	Characteristics	
Temperature range	-55 to +105°C	
Rated voltage range	2.5 to 50Vdc	
Capacitance range	18 to 2,700µF	
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	$Z_{+105^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$ , $Z_{-55^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$ at 100kHz	
Endurance	105°C, 20,000 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 105°C

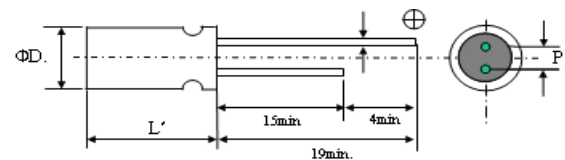
## • Size List

(unit: mm)

µF	RV (SV)		2.5 (2.9)	4 (4.6)	6.3 (7.2)	16 (18.4)	20 (23)	32 (36.8)	35 (40.2)	50 (57.5)
	18									
39									8×7	8×11.5
68										10×11.5
82									8×11.5	
100						6.3×6		8×7		
120										10×11.5
180							8×7	8×11.5		
270						8×7				
330					6.3×6				10×11.5	
390					8×7		8×11.5			
470							10×11.5			
560	6.3×6	8×7			8×11.5	10×11.5				
680	8×7									
820					8×11.5					
1000					10×11.5					
1500	8×11.5	8×11.5								
2700	10×11.5									

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
6.3×6	6.3	6.0	L max.	2.5	0.45
8×7	8.0	7.0		3.5	0.45
8×11.5	8.0	11.5	L + 1.0 max.	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 (105°C, 100kHz) [mA <sub>rms</sub> ]	Tangent of Loss Angel [max.]	Leakage Current [μA, max.]	Part Number
2.5	560	6.3 x 6	16	3500	0.12	300	2RSC560MC6
	680	8 x 7	20	3370	0.12	500	2RSC820MD9
	1500	8 x 11.5	10	5150	0.12	750	2RSC1500MD11
	2700	10 x 11.5	12	5070	0.12	1350	2RSC2700ME11
4	560	8 x 7	22	3220	0.12	500	4RSC560MD7
	1500	8 x 11.5	12	4700	0.12	1200	4RSC1500MD11
6.3	330	6.3 x 6	15	3390	0.12	415	6RSC330MC6
	390	8 x 7	22	3220	0.12	491	6RSC390MD7
	820	8 x 11.5	12	4700	0.12	1033	6RSC820MD11
16	100	6.3 x 6	24	2490	0.12	320	16RSC100MC6
	270	8 x 7	22	3300	0.12	864	16RSC270MD7
	560	8 x 11.5	14	4950	0.12	1792	16RSC560MD11
	1000	10 x 11.5	12	5400	0.12	3200	16RSC1000ME11
20	180	8 x 7	25	3200	0.12	720	20RSC180MD7
	390	8 x 11.5	14	4950	0.12	1560	20RSC390MD11
	470	10 x 11.5	15	5000	0.12	1880	20RSC470ME11
	560	10 x 11.5	12	5400	0.12	2240	20RSC560ME11
25	100	8 x 7	24	3200	0.12	410	25RSC82MC9
	180	8 x 11.5	16	4650	0.12	900	25RSC180MD11
	330	10 x 11.5	14	5000	0.12	1650	25RSC330ME11
35	39	8 x 7	30	2800	0.12	273	35RSC39MD7
	82	8 x 11.5	20	4000	0.12	574	35RSC82MD11
	120	10 x 11.5	18	4400	0.12	840	35RSC120ME11
50	18	8 x 7	35	2700	0.12	180	50RSC18MD7
	39	8 x 11.5	25	3800	0.12	390	50RSC39MD11
	68	10 x 11.5	15	4300	0.12	680	50RSC68ME11