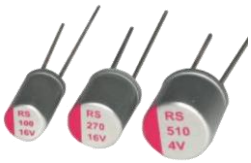
RHV series

参考資料

- High voltage standard
- High ripple current



Pb Free RoHS

>> Specifications

Items	Characteristics	
Temperature range	-55 ~ +105°C	
Rated voltage range	32.0Vdc ~ 50.0Vdc	
Capacitance range	6.8μF ~ 220μF	
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	$Z_{+105℃}/Z_{+20°C} \leq 1.25$, $Z_{-55℃}/Z_{+20°C} \leq 1.25$ at 100kHz	
Endurance	105℃, 2000 hrs at rated voltage	
	Appearance	No significant damage
	Capacitance change	Within±20% of the initial value
	Tangent of loss angle (tanδ)	≤200% of the initial specified value
	ESR(mΩ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value
amp 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℃ , 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

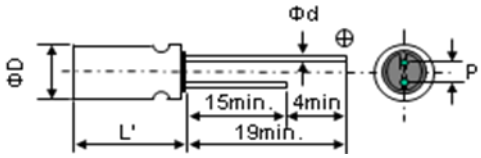
>> Dimensions

(unit: mm)

RV (sv) / μF	32 (32)	35 (35)	50 (50)
6.8			6.3x6.0
8.2		8.0x7.0	
10		6.3x6.0	
22	8.0x7.0	8.0x7.0, 8.0x11.5	
33			8.0x7.0
47		10.0x11.5	8.0x11.5
68	8.0x7.0	8.0x7.0	
100	10.0x11.5	10.0x11.5	10.0x11.5
120	8.0x11.5		
150		10.0x11.5	
220	10.0x11.5		

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
6.3x6.0	6.3	6.0	Lmax	2.5	0.45
8.0x7.0	8.0	7.0		3.5	0.45
8.0x11.5	8.0	11.5	L+1.0max	3.5	0.60
10.0x11.5	10.0	11.5		5.0	0.60

>> Standard Ratings

Rated Voltage [Vdc]	Rated Capacitance [µF]	Size ΦD x L [mm]	ESR (20°C, 100kHz) [mΩ] [max]	Rated Ripple Current (105°C, 100kHz) [mArms, max]	Tangent of Loss Angel [max]	Leakage Current [µA, max]	Part Number
32	22	8.0 x 7.0	70	1350	0.10	141	32RHV22MD7
	68	8.0 x 7.0	70	1500	0.10	435	32RHV68MD7
	100	10 x 11.5	28	3650	0.10	640	32RHV100ME11
	120	8.0 x 11.5	50	2300	0.10	768	32RHV120MD11
	220	10 x 11.5	28	3650	0.10	1408	32RHV220ME11
35	8.2	8.0 x 7.0	70	1300	0.10	57	35RHV8R2MD7
	10	6.3 x 6.0	90	1100	0.10	70	35RHV10MC6
	22	8.0 x 7.0	70	1300	0.10	154	35RHV22MD7
	22	8.0 x 11.5	50	2300	0.10	154	35RHV22MD11
	47	10 x 11.5	30	3650	0.10	329	35RHV47ME11
	68	8.0 x 7.0	70	1450	0.10	476	35RHV68MD7
	100	10 x 11.5	28	3650	0.10	700	35RHV100ME11
	150	10 x 11.5	28	3650	0.10	1050	35RHV150ME11
50	6.8	6.3 x 6.0	120	660	0.10	68	50RHV6R8MC6
	33	8.0 x 7.0	90	1000	0.10	330	50RHV33MD7
	47	8.0 x 11.5	70	1450	0.10	470	50RHV47MD11
	100	10 x 11.5	50	2000	0.10	1000	50RHV100ME11