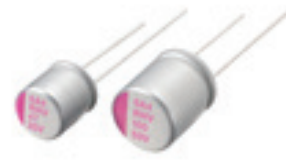


RHV series

Radial Lead Type

- High Voltage, High Capacitance
- 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	16 to 50Vdc	
Capacitance range	10 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 _{+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
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	

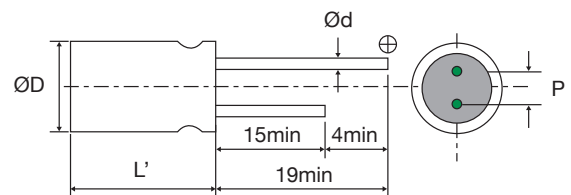
*In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C

SIZE LIST

(unit : mm)

μF	RV(SV)	16 (18.4)	20 (23)	25 (28.7)	32 (36.8)	35 (40.2)	50 (57.5)
10							6.3 x 6
18							8 x 7
22					6.3 x 6	6.3 x 6	8 x 7
39						8 x 7	8 x 11.5
47				6.3 x 6		8 x 7	8 x 11.5
56				6.3 x 6			8 x 11.5
68					8 x 7	8 x 7	10 x 11.5
82				8 x 7		8 x 11.5	
100				8 x 7			10 x 11.5
120			6.3 x 6		8 x 11.5	10 x 11.5	
150		6.3 x 6				10 x 11.5	
180		6.3 x 6	8 x 7	8 x 11.5			
220			8 x 11.5	8 x 11.5	10 x 11.5	10 x 11.5	10 x 11.5
270		8 x 7					
330				10 x 11.5			
390			8 x 11.5	10 x 11.5			
470							
560		8 x 11.5	10 x 11.5				
1000		10 x 11.5					
1500		10 x 11.5					

MARKING AND DIMENSIONS



(unit: mm)

Size	ØD±0.5	L	L'	P±0.5	Ød
6.3 x 6	6.3	6.0	L max.	2.5	0.45
8 x 7	8.0	7.0		3.5	0.45
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

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

Conductive Polymer Aluminum Capacitors

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}]	Tangent of Loss Angel [max.]	Leakage Current [μ A, max.]	Part Number
16	150	6.3 x 6	30	2590	0.12	480	16RHV150MC6
	180	6.3 x 6	22	3300	0.12	576	16RHV180MC6
	270	8 x 7	22	3300	0.12	864	16RHV270MD7
	560	8 x 11.5	14	4950	0.12	1792	16RHV560MD11
	1000	10 x 11.5	12	5400	0.12	3200	16RHV1000ME11
	1500	10 x 11.5	12	5600	0.12	4800	16RHV1500ME11
20	120	6.3 x 6	25	3200	0.12	480	20RHV120MC6
	180	8 x 7	25	3200	0.12	720	20RHV180MD7
	220	8 x 11.5	24	3320	0.12	880	20RHV220MD11
	390	8 x 11.5	14	4950	0.12	1560	20RHV390MD11
	560	10 x 11.5	12	5400	0.12	2240	20RHV560ME11
25	47	6.3 x 6	30	2800	0.12	235	25RHV47MC6
	56	6.3 x 6	30	2800	0.12	280	25RHV56MC6
	82	8 x 7	28	3000	0.12	410	25RHV82MD7
	100	8 x 7	28	3000	0.12	500	25RHV100MD7
	180	8 x 11.5	16	4650	0.12	900	25RHV180MD11
	220	8 x 11.5	16	4650	0.12	1100	25RHV220MD11
	330	10 x 11.5	14	5000	0.12	1650	25RHV330ME11
	390	10 x 11.5	14	5000	0.12	1950	25RHV390ME11
32	22	6.3 x 6	35	2700	0.12	140	32RHV22MC6
	68	8 x 7	25	3200	0.12	435	32RHV68MD7
	120	8 x 11.5	20	4000	0.12	768	32RHV120MD11
	220	10 x 11.5	18	4650	0.12	1408	32RHV220ME11
35	22	6.3 x 6	35	2600	0.12	154	35RHV22MC6
	39	8 x 7	30	2800	0.12	273	35RHV39MD7
	47	8 x 7	30	2800	0.12	329	35RHV47MD7
	68	8 x 7	28	3000	0.12	476	35RHV68MD7
	82	8 x 11.5	20	4000	0.12	574	35RHV82MD11
	120	10 x 11.5	18	4400	0.12	840	35RHV120ME11
	150	10 x 11.5	18	4400	0.12	1050	35RHV150ME11
	220	10 x 11.5	18	4650	0.12	1540	35RHV220ME11
50	10	6.3 x 6	40	2500	0.12	100	50RHV10MC6
	18	8 x 7	35	2700	0.12	180	50RHV18MD7
	22	8 x 7	35	2700	0.12	220	50RHV22MD7
	39	8 x 11.5	25	3800	0.12	390	50RHV39MD11
	47	8 x 11.5	25	3800	0.12	470	50RHV47MD11
	56	8 x 11.5	25	3800	0.12	560	50RHV56MD11
	68	10 x 11.5	20	4300	0.12	680	50RHV68ME11
	100	10 x 11.5	20	4300	0.12	1000	50RHV100ME11
	220	10 x 11.5	25	4650	0.12	2200	50RHV220ME11