



• Specifications

Items	Characteristics	
Temperature range	-55 to +105°C	
Rated voltage range	16 to 50Vdc	
Capacitance range	10 to 3,300μF	
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, 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
	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

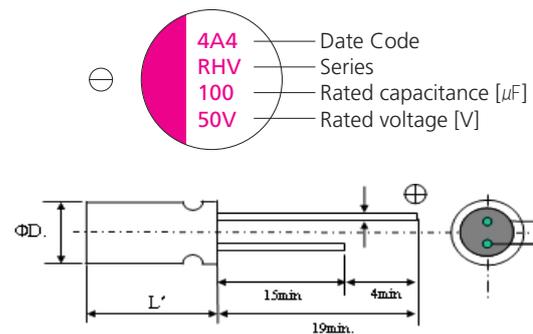
• Size List

(unit: mm)

RV (SV)	16 (18.4)	20 (23)	25 (28.7)	32 (36.8)	35 (40.2)	50 (57.5)
10						6.3×6
22				6.3×6	6.3×6	8×7
27			6.3×6			
39					8×7	8×11.5
47			6.3×6		8×7	8×11.5
56			6.3×6			8×11.5
68				8×7	8×7	10×11.5
82			8×7		8×11.5	
100			8×7		8×11.5	10×11.5
120		6.3×6		8×11.5	10×11.5	8×11.5
150	6.3×6				10×11.5	
180	6.3×6	8×7	8×11.5			
220		8×11.5	8×11.5	10×11.5	10×11.5	10×11.5
270	8×7				8×11.5	
330			10×11.5		10×11.5	
390		8×11.5	10×11.5			
470			10×11.5			
560	8×11.5	10×11.5				
680			10×11.5		10×16	
1000	10×11.5		10×16			
1200	8×15		8×23			
1500	10×11.5					
1800	8×21					
2200	10×16		10×23			
3300	10×21					

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
6.3×6	6.3	6.0	Lmax	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	0.60
10×11.5	10.0	11.5		5.0	0.60
8×15	8.0	15.0		3.5	0.60
10×16	10.0	16.0		5.0	0.60
8×21	8.0	21.0		3.5	0.60
10×21	10.0	21.0		5.0	0.60
8×23	8.0	23.0		3.5	0.60
10×23	10.0	23.0		5.0	0.60

• 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) [mArms]	Tangent of Loss Angel [max.]	Leakage Current [μA, 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
	1200	8 x 15	11	7000	0.12	2880	16RHV1200MD15
	1500	10 x 11.5	12	5600	0.12	4800	16RHV1500ME11
	1800	8 x 21	9	7500	0.12	4320	16RHV1800MD21
	2200	10 x 16	11	8100	0.12	5280	16RHV2200ME16
	3300	10 x 21	11	10000	0.12	7920	16RHV3300ME21
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	27	6.3 x 6	40	2450	0.12	135
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
470		10 x 11.5	14	5000	0.12	2350	25RHV470ME11
680		10 x 11.5	14	5000	0.12	3400	25RHV680ME11
1000		10 x 16	10	5600	0.12	2500	25RHV1000ME16
1200		8 x 23	10	5600	0.12	3000	25RHV1200MD23
2200		10 x 23	10	8100	0.12	5500	25RHV2200ME23
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
	100	8 x 11.5	20	4000	0.12	700	35RHV100MD11
	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
	270	8 x 11.5	20	4200	0.12	1890	35RHV270MD11
330	10 x 11.5	17	4650	0.12	2310	35RHV330ME11	
680	10 x 16	14	5000	0.12	4760	35RHV680ME16	
50	10	6.3 x 6	40	2500	0.12	100	50RHV10MC6
	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
	120	8 x 11.5	20	3900	0.12	1200	50RHV120MD11
	220	10 x 11.5	25	4650	0.12	2200	50RHV220ME11

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