



• Specifications

Items	Characteristics	
Temperature range	-55 to +125°C	
Rated voltage range	16 to 80Vdc	
Capacitance range	5.6 to 390μF	
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	$Z_{+125^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25, Z_{-55^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$ at 100kHz	
Endurance	125°C, 3,000 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 125°C

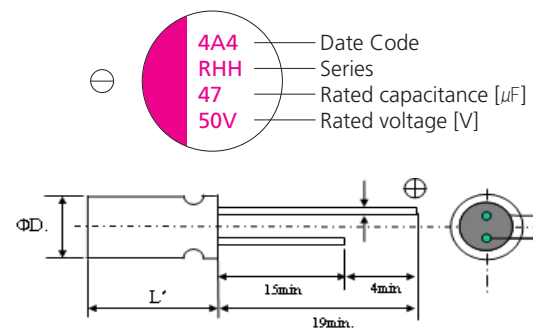
• Size List

(unit: mm)

μF	R V (SV)	16 (18.4)	20 (23)	25 (28.7)	35 (40.2)	50 (57.5)	63 (72.4)	80 (92)
5.6						6.3×6		
10					6.3×6	8×7		
18					8×7			
22				6.3×6				
27						8×11.5		
33			6.3×6					
39				8×7				
47	6.3×6					10×11.5		
56		8×7			8×11.5			
68								8×15
82	8×7							
100					10×11.5			10×16
120				8×11.5				
150			8×11.5					10×16
180				10×11.5				
220	8×11.5					8×21	8×23	10×16
270			10×11.5					
330						10×21	10×23	
390	10×11.5							

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+1.0max	3.5	0.60
10×11.5	10.0	11.5		5.0	0.60
8×15	8.0	11.5		3.5	0.60
10×16	10.0	11.5		5.0	0.60
8×21	8.0	11.5		3.5	0.60
10×21	10.0	11.5		5.0	0.60
8×23	8.0	11.5		3.5	0.60
10×23	10.0	11.5		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 (125°C, 100kHz) [mA rms]	Tangent of Loss Angel [max.]	Leakage Current [μA, max.]	Part Number
16	47	6.3 x 6	50	512	0.12	150	16RHH47MC6
	82	8 x 7	40	670	0.12	262	16RHH82MD7
	220	8 x 11.5	20	1151	0.12	704	16RHH220MD11
	390	10 x 11.5	16	1493	0.12	1248	16RHH390ME11
20	33	6.3 x 6	60	459	0.12	132	20RHH33MC6
	56	8 x 7	50	598	0.12	224	20RHH56MD7
	150	8 x 11.5	28	1050	0.12	600	20RHH150MD11
	270	10 x 11.5	25	1367	0.12	1080	20RHH270ME11
25	22	6.3 x 6	60	474	0.12	110	25RHH22MC6
	39	8 x 7	50	580	0.12	195	25RHH39MD7
	120	8 x 11.5	28	943	0.12	600	25RHH120MD11
	180	10 x 11.5	25	1202	0.12	900	25RHH180ME11
35	10	6.3 x 6	70	340	0.12	70	35RHH10MC6
	18	8 x 7	60	400	0.12	126	35RHH18MD7
	56	8 x 11.5	30	700	0.12	392	35RHH56MD11
	100	10 x 11.5	28	1150	0.12	700	35RHH100ME11
50	5.6	6.3 x 6	70	310	0.12	56	50RHH5R6MC6
	10	8 x 7	60	371	0.12	100	50RHH10MD7
	27	8 x 11.5	35	665	0.12	270	50RHH27MD11
	47	10 x 11.5	30	825	0.12	470	50RHH47ME11
63	220	8 x 21	20	3000	0.12	693	63RHH220MD21
	220	8 x 23	20	3100	0.12	693	63RHH220MD23
	220	10 x 16	20	3100	0.12	1039	63RHH220ME16
	330	10 x 21	20	4000	0.12	1039	63RHH330ME21
	330	10 x 23	20	4100	0.12	1039	63RHH330ME23
80	68	8 x 15	30	2100	0.12	272	80RHH68MD15
	120	10 x 16	25	2500	0.12	480	80RHH220ME16
	150	10 x 16	25	2600	0.12	600	80RHH150ME16