

- ◆ 105°C 7000~10000 Hours
- ◆ Miniature, High Ripple Current, High Frequency, Low ESR
- ◆ RoHS Compliant
- ◆ AEC-Q200 Qualified, Please Consult Us For More Details


■ Specification

Items	Characteristics									
Operation Temperature Range	≤120V.DC -55°C ~ +105°C ; 160 ~ 500V.DC -40°C ~ +105°C									
Rated Voltage	10 ~ 500V.DC									
Capacitance Tolerance	±20% (25±2°C 120Hz)									
Leakage Current(µA)	10 ~ 120WV I ≤ 0.01CV or 3µA whichever is greater C:rated capacitance(µF) V:rated voltage(V) 2 minutes reading									
	160 ~ 500WV I ≤ 0.02CV+10(µA) C:rated capacitance(µF) V:rated voltage(V) 2 minutes reading									
Dissipation Factor (25±2°C 120Hz)	Rated Voltage(V)	10	16	25	35	50	63	80	100	
	tgδ	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.09	
	Rated Voltage(V)	120	160	200	250	350	400	450	500	
	tgδ	0.09	0.09	0.08	0.08	0.10	0.10	0.12	0.20	
For those with rated capacitance larger than 1000µF, when the rated capacitance is increased by 1000µF, then tgδ will be increased by 0.02										
Temperature Characteristics (120Hz)	Rated Voltage(V)	10	16	25	35	50	63	80	100	
	Z(-40°C)/Z(20°C)	6	4	3	3	3	3	3	3	
	Rated Voltage(V)	120	160	200	250	350	400	450	500	
	Z(-40°C)/Z(20°C)	5	5	5	5	7	7	7	8	
Endurance	After standard test time with applying the rated voltage with the rated ripple current in the oven at 105°C, the following specification shall be satisfied after 16 hours at 25±2°C.									
	Capacitance change	within±20% of the intial value								
	Dissipation Factor	Not more than 200% of the specified value								
	Leakage current	Not more than the specified value								
	Load life(hours)	Φ5						7000hrs		
	Φ6.3						9000hrs			
	≥Φ8						10000hrs			
Shelf Life At High Temperature	After leaving capacitors under no load at 105°C for 1000 hours, the following specification shall be satisfied at 25±2°C.									
	Capacitance change	within±20% of the intial value								
	Dissipation Factor	Not more than 200% of the specified value								
	Leakage current	Not more than 200% of the specified value								

■ Standard Size

Voltage (V)	10			16			25			35			
	Items Capacitance (μ F)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
10		5×9	1.10	56	5×9	1.10	71	5×9	1.10	91	5×9	1.40	101
15		5×9	1.10	76	5×9	1.10	91	5×9	1.10	111	5×9	1.10	121
22		5×9	0.40	91	5×9	0.40	111	5×9	1.10	121	5×9	1.10	160
33		5×9	0.40	106	5×9	0.40	121	5×9	0.40	151	5×9	0.40	215
39		5×9	0.26	136	5×9	0.40	151	5×9	0.40	181	5×9	0.40	345
47		5×9	0.26	143	5×9	0.26	161	5×9	0.26	211	5×9	0.37	345
56		5×9	0.26	151	5×9	0.26	171	5×9	0.26	310	5×9	0.37	414
68		5×9	0.26	161	5×9	0.26	181	5×9	0.24	345	5×11	0.34	443
68											6.3×9	0.34	486
82		5×9	0.26	171	5×9	0.26	211	5×9	0.34	414	5×11	0.28	486
82											6.3×9	0.28	540
100		5×9	0.26	181	5×9	0.24	345	5×9	0.34	443	6.3×9	0.28	550
120		5×9	0.26	211	5×9	0.24	345	5×11	0.34	486	6.3×9	0.28	550
120								6.3×9	0.28	486			
150		5×9	0.26	345	5×9	0.34	414	6.3×9	0.28	540	6.3×11	0.21	660
150											8×9	0.21	660
180		5×9	0.26	345	5×11	0.34	443	6.3×9	0.28	550	8×9	0.21	900
180					6.3×9	0.34	486						
220		5×9	0.34	414	6.3×9	0.28	540	6.3×11	0.21	660	8×9	0.15	945
220								8×9	0.21	660			
270		5×11	0.34	443	6.3×9	0.28	540	8×9	0.15	900	8×11.5	0.1200	1250
270		6.3×9	0.34	486							10×9	0.1200	1250
330		6.3×9	0.15	540	6.3×11	0.21	550	8×9	0.1500	945	8×14	0.0900	1330
330					8×9	0.21	550				10×12.5	0.0900	1330
390		6.3×9	0.15	540	8×9	0.15	660	8×11.5	0.0980	1250	8×16	0.076	1420
390								10×9	0.0980	1250	10×12.5	0.076	1760
470		6.3×11	0.15	545	8×9	0.15	900	8×11.5	0.0980	1330	10×14	0.0590	1850
470		8×9	0.15	550				10×9	0.0980	1330			
560		6.3×11	0.12	880	8×9	0.15	900	8×14	0.0760	1420	10×14	0.0590	1960
560		8×9	0.12	900				10×12.5	0.0760	1760			
680		8×9	0.12	900	8×11.5	0.0980	1250	8×16	0.0590	1500	10×16	0.0520	2120
680					10×9	0.0980	1330	10×12.5	0.0590	1760	12.5×14	0.0520	2120
820		8×9	0.12	1180	8×14	0.0760	1420	10×14	0.0460	1850	12.5×14	0.0520	2360
820					10×12.5	0.0760	1760						
1000		8×11.5	0.0980	1250	8×16	0.0590	1500	10×16	0.0420	1960	12.5×16	0.0420	2480
1000		10×9	0.0980	1330	10×12.5	0.0590	1850	12.5×14	0.0420	2120			
1200		8×14	0.0760	1420	10×14	0.0460	1850	10×20	0.0320	2120	12.5×20	0.0380	2900
1200		10×12.5	0.0760	1760				12.5×14	0.0320	2120			
1500		8×16	0.0590	1500	10×16	0.0420	1960	10×20	0.0280	2480	12.5×20	0.0380	2900

■ Standard Size

Voltage (V)	10			16			25			35		
	Items	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)
1500	10×12.5	0.0590	1760	12.5×14	0.0420	2120	12.5×16	0.0280	2480	16×16	0.0380	3250
1800	10×14	0.0460	1850	10×20	0.0380	1960	12.5×16	0.0280	2480	12.5×25	0.0350	3450
1800				12.5×14	0.0420	2120				16×20	0.0350	3630
2200	10×16	0.0420	1960	10×20	0.0380	2480	12.5×20	0.0270	2900	12.5×30	0.0320	3630
2200	12.5×14	0.0420	2120	12.5×16	0.0380	2480	16×16	0.0270	3250	16×20	0.0320	3630
2700	10×20	0.0320	2250	12.5×16	0.0380	2480	12.5×25	0.0265	3450	16×25	0.0230	3890
2700	12.5×14	0.0320	2250				16×20	0.0265	3630	18×20	0.0230	4010
3300	10×23	0.0280	2480	12.5×20	0.0280	2900	12.5×30	0.0260	3630	16×31.5	0.0100	4080
3300	12.5×16	0.0280	2480				16×20	0.0260	3630	18×25	0.0100	4080
3900	12.5×16	0.0280	2900	12.5×25	0.0230	3250	16×25	0.0171	3890	18×25	0.0100	4080
3900				16×16	0.0230	3450	18×20	0.0171	3650			
4700	12.5×20	0.0230	3250	12.5×25	0.0210	3450	16×25	0.0121	3890			
4700	16×16	0.0230	3450	16×20	0.0210	3630	18×20	0.0110	4010			

Voltage (V)	50			63			80			100		
	Items	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance Ω max/100KHz 25±2°C)
0.47	5×9	5.50	21	5×9	5.00	23	5×9	6.05	24	5×9	6.05	24
1.0	5×9	5.50	31	5×9	5.00	35	5×9	6.05	37	5×9	6.05	37
1.2				5×9	5.00	35	5×9	6.05	37	5×9	6.05	37
1.5				5×9	5.00	41	5×9	6.05	43	5×9	6.05	43
1.8	5×9	5.50	32	5×9	5.00	41	5×9	6.05	43	5×9	6.05	43
2.2	5×9	1.50	39	5×9	1.50	45	5×9	1.50	47	5×9	1.60	47
2.7				5×9	1.50	52	5×9	1.50	55	5×9	1.60	55
3.3	5×9	1.50	54	5×9	1.50	59	5×9	1.50	62	5×9	1.60	62
3.9	5×9	1.50	54	5×9	1.50	78	5×9	1.50	81	5×9	1.60	81
4.7	5×9	1.50	89	5×9	1.50	98	5×9	1.50	101	5×9	1.60	101
5.6	5×9	1.50	91	5×9	1.50	100	5×9	1.50	106	5×9	1.40	106
6.8	5×9	1.50	94	5×9	1.50	103	5×9	1.50	111	5×9	1.40	111
8.2	5×9	1.50	98	5×9	1.50	109	5×9	1.50	121	5×9	1.40	121
10	5×9	1.50	101	5×9	1.50	111	5×9	1.40	150	5×9	0.80	220
12				5×9	1.50	121	5×9	1.40	163	5×11	0.80	267
12										6.3×9	0.80	267
15	5×9	1.50	121	5×9	1.50	150	5×9	1.10	200	5×11	0.80	267
15										6.3×9	0.80	267
18				5×9	1.1	173	5×9	0.86	240	6.3×9	0.63	267

■ Standard Size

Voltage (V)	50			63			80			100			
	Items Capacitance (μ F)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
22		5×9	1.10	238	5×9	0.86	228	5×11	0.73	250	6.3×9	0.63	290
22								6.3×9	0.63	267			
27		5×9	0.86	286	5×9	0.58	250	6.3×9	0.63	267	6.3×11	0.63	420
27											8×9	0.63	450
33		5×9	0.58	314	5×11	0.39	300	6.3×9	0.63	267	8×9	0.40	450
33					6.3×9	0.39	344						
39		5×11	0.36	344	6.3×9	0.39	344	6.3×11	0.63	400	8×9	0.28	565
39		6.3×9	0.36	344				8×9	0.63	420			
47		5×11	0.36	344	6.3×9	0.39	385	6.3×11	0.63	420	8×11.5	0.28	585
47		6.3×9	0.34	385				8×9	0.63	470	10×9	0.28	624
56		6.3×9	0.34	385	6.3×11	0.24	492	8×9	0.63	470	8×14	0.25	624
56					8×9	0.24	525				10×9	0.25	624
68		6.3×9	0.34	390	6.3×11	0.24	724	8×9	0.49	520	8×16	0.21	735
68					8×9	0.24	724				10×12.5	0.21	750
82		6.3×11	0.24	487	8×9	0.24	724	8×11.5	0.38	624	8×16	0.19	780
82		8×9	0.24	724				10×9	0.25	668	10×14	0.19	900
100		6.3×11	0.18	687	8×9	0.24	902	8×14	0.21	735	10×14	0.14	1040
100		8×9	0.18	724				10×9	0.19	744			
120		8×9	0.18	800	8×11.5	0.19	902	8×16	0.19	744	10×16	0.12	1170
120					10×9	0.19	979	10×12.5	0.19	892	12.5×14	0.12	1240
150		8×11.5	0.14	950	8×14	0.19	950	10×14	0.15	980	12.5×14	0.0930	1368
150		10×9	0.14	975	10×12.5	0.19	1130						
180		8×14	0.11	1190	8×16	0.19	1190	10×14	0.15	980	12.5×16	0.0660	1530
180		10×12.5	0.11	1230	10×14	0.19	1190						
220		8×14	0.0950	1190	10×14	0.14	1200	10×16	0.13	1040	12.5×20	0.0660	1620
220		10×12.5	0.0950	1230				12.5×14	0.13	1040			
270		8×16	0.0740	1420	10×16	0.0860	1300	10×20	0.0940	1240	12.5×20	0.0560	1750
270		10×14	0.0740	1420	12.5×14	0.0902	1500	12.5×16	0.0940	1240	16×16	0.0640	1750
330		10×14	0.0740	1450	10×16	0.0860	1580	12.5×16	0.0940	1368	12.5×25	0.0470	2140
330					12.5×14	0.0902	1650				16×20	0.0480	2210
390		10×16	0.0580	1580	10×20	0.0660	1870	12.5×20	0.0640	1640	12.5×30	0.0400	2210
390		12.5×14	0.0580	1650	12.5×16	0.0660	1870	16×16	0.0640	1750	16×20	0.0480	2210
470		12.5×14	0.0580	2050	12.5×16	0.0500	2100	12.5×20	0.0640	1750	16×25	0.0480	2400
470								16×16	0.0480	1750	18×20	0.0420	2270
560		12.5×16	0.0500	2050	12.5×20	0.0473	2410	12.5×25	0.0480	2110	16×25	0.0320	2600
560					16×16	0.0473	2500	16×20	0.0480	2110			
680		12.5×16	0.0500	2250	12.5×25	0.0473	2410	12.5×30	0.0420	2270	16×31.5	0.0300	2860
680					16×16	0.0385	2730	16×20	0.0420	2270	18×25	0.0300	2860
820		12.5×20	0.0390	2410	12.5×30	0.0360	2620	16×25	0.0320	2600	18×31.5	0.0290	3510

Standard Size

Voltage (V)	50			63			80			100		
Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
820	16×16	0.0390	2730	16×20	0.0350	2730	18×20	0.0420	2270			
1000	12.5×25	0.0390	2860	16×20	0.0350	2860	16×31.5	0.0300	2860			
1000	16×16	0.0390	3010				18×25	0.0340	2470			
1200	12.5×25	0.0340	3280	16×25	0.0340	2990	18×25	0.0300	2860			
1200	16×20	0.0340	3300	18×20	0.0340	3300						
1500	12.5×30	0.0260	3280	16×25	0.0280	3280	18×31.5	0.0290	3510			
1500	16×25	0.0340	3300									
1800	16×25	0.0280	3300	16×31.5	0.0280	3570						
1800	18×20	0.0280	3300	18×25	0.0280	3570						
2200	18×25	0.0280	3570	18×31.5	0.0260	3670						
2700	18×31.5	0.0260	3670									

Voltage (V)	120			160			200			250		
Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
0.47	5×9	6.05	24									
1.0	5×9	6.05	37	5×9	28.00	68	5×9	28.00	50	5×9	28.00	56
1.2	5×9	6.05	37	5×9	28.00	68	5×9	28.00	55	5×9	28.00	56
1.5	5×9	6.05	43	5×9	28.00	95	5×9	28.00	60	5×9	28.00	56
1.8	5×9	6.05	43	5×9	28.00	95	5×9	28.00	65	5×9	28.00	65
2.2	5×9	1.60	47	5×9	28.00	95	5×9	28.00	75	5×9	28.00	98
2.7	5×9	1.60	55	5×9	28.00	95	5×9	28.00	80	5×9	28.00	98
3.3	5×9	1.60	62	5×9	28.00	95	5×9	28.00	95	5×9	28.00	98
3.9	5×9	1.60	81	5×9	28.00	95	5×9	28.00	95	5×11	23.00	114
3.9										6.3×9	15.60	135
4.7	5×9	1.60	101	5×9	23.00	95	5×11	23.00	104	6.3×9	15.60	135
4.7							6.3×9	15.60	125			
5.6	5×9	1.60	106	5×11	23.00	104	6.3×9	15.60	125	6.3×9	15.60	140
5.6				6.3×9	23.00	110						
6.8	5×11	1.40	111	6.3×9	18.00	125	6.3×9	15.60	140	6.3×11	14.90	140
6.8										8×9	14.90	140
8.2	5×11	1.40	127	6.3×9	18.00	125	6.3×11	14.90	140	6.3×12	12.50	150
8.2							8×9	14.90	140	8×9	12.50	170
10	6.3×9	1.10	220	6.3×11	15.00	132	6.3×12	12.50	160	8×9	10.00	210
10				8×9	15.00	140	8×9	12.50	170			
12	6.3×9	1.10	220	6.3×12	12.50	140	8×11.5	7.00	210	8×11.5	7.00	270

■ Standard Size

Voltage (V)	120			160			200			250			
	Items Capacitance (μ F)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
12				8×9	12.50	150							
15	6.3×11	0.80	267	6.3×12	12.50	140	8×11.5	4.90	256	8×11.5	4.90	270	
15	8×9	0.80	267	8×9	12.50	150	10×9	4.90	280	10×9	4.90	280	
18	8×9	0.80	267	8×11.5	9.70	160	8×14	3.58	280	8×14	3.58	280	
18				10×9	12.50	160	10×12.5	3.58	320	10×12.5	3.58	320	
22	8×9	0.80	290	8×11.5	7.90	160	8×16	3.58	320	8×16	3.58	320	
22				10×9	7.90	250	10×12.5	3.58	320	10×12.5	3.58	320	
27	8×11.5	0.63	420	8×14	7.90	250							
27				10×12.5	7.90	250							
33	8×11.5	0.49	450	8×16	5.90	350	8×23	1.78	603	8×23	1.78	603	
33	10×9	0.49	450	10×12.5	5.90	360	10×16	1.78	708	10×16	1.78	708	
39	8×14	0.38	565	8×20	5.55	580							
39	10×12.5	0.38	565	10×14	5.55	635							
47	8×16	0.28	585	8×23	5.55	635	10×20	1.46	745	10×20	1.46	850	
47	10×12.5	0.28	624	10×16	5.55	680	12.5×16	1.46	960	12.5×16	1.46	960	
56	8×20	0.25	624	10×16	5.55	850	10×23	1.46	960	10×23	1.46	960	
56	10×14	0.25	624	12.5×14	5.55	850	12.5×16	1.46	960	12.5×16	1.46	960	
68	8×23	0.21	735	10×20	5.55	850	12.5×20	1.35	1270	12.5×20	1.35	1270	
68	10×16	0.21	750	12.5×14	5.55	850	16×16	1.35	1270	16×16	1.35	1270	
82	10×16	0.19	780	10×20	4.36	1020	12.5×20	1.35	1270	12.5×20	1.35	1270	
82	12.5×14	0.19	900	12.5×16	4.36	1155	16×16	1.35	1270	16×16	1.35	1270	
100	10×20	0.14	1040	12.5×16	4.36	1155	12.5×20	1.35	1360	12.5×25	1.32	1360	
100	12.5×16	0.14	1040				16×16	1.35	1270	16×20	1.32	1410	
120	10×23	0.12	1170	12.5×20	3.41	1390	12.5×25	1.25	1360	16×20	1.25	1500	
120	12.5×16	0.12	1240	16×16	3.01	1420	16×20	1.32	1660				
150	12.5×20	0.0930	1368	12.5×25	3.01	1520	16×20	1.20	1850	16×25	1.25	1800	
150				16×20	2.31	1850				18×20	1.25	1920	
180	12.5×25	0.0660	1530	12.5×30	2.31	1850	16×25	0.95	2020	16×31.5	0.95	2250	
180				16×20	2.31	1850	18×20	0.95	2020	18×25	0.95	2250	
220	16×20	0.0660	1620	16×25	1.88	2400	18×25	0.91	2380	18×31.5	0.91	2625	
220				18×20	1.88	2320							
270	12.5×30	0.0560	1750	16×31.5	1.80	2715							
270	16×20	0.0640	1750	18×25	0.98	2660							
330	16×25	0.0470	2140	18×25	0.98	2660							
330	18×20	0.0480	2140										
390	16×31.5	0.0400	2210	18×31.5	0.91	2715							
390	18×25	0.0400	2210										
470	16×31.5	0.0400	2270										
470	18×25	0.0400	2270										

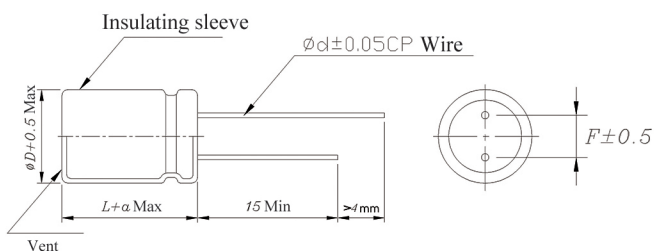
Standard Size

Voltage (V)	120			160			200			250		
Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
560	16×35.5	0.0320	2600									
560	18×31.5	0.0320	2600									
680	18×35.5	0.0300	2860									

Voltage (V)	350			400			450			500		
Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
1.0	5×9	55.00	73	5×9	55.00	73	5×9	55.00	73	6.3×9	52.00	45
1.2	5×9	36.00	90	5×9	36.00	76	5×9	52.00	78	6.3×9	52.00	45
1.5	5×9	36.00	90	5×9	36.00	76	5×11	52.00	81	6.3×9	52.00	45
1.5							6.3×9	52.00	90			
1.8	5×9	36.00	95	5×9	36.00	87	6.3×9	52.00	95	8×9	45.00	80
2.2	5×11	36.00	104	6.3×9	29.00	105	6.3×9	42.00	100	8×9	45.00	80
2.2	6.3×9	36.00	125									
2.7	6.3×9	26.00	125	6.3×9	26.00	125	6.3×9	42.00	100	8×11.5	18.50	85
3.3	6.3×9	23.00	131	6.3×9	25.00	131	6.3×12	25.00	120	8×11.5	18.50	85
3.3							8×9	25.00	120			
3.9	6.3×11	17.00	131	6.3×11	25.00	140	8×9	25.00	135	8×14	13.00	85
3.9	8×9	17.00	131	8×9	23.50	140						
4.7	6.3×11	17.00	140	6.3×12	23.50	140	8×11.5	18.50	135	8×16	13.00	130
4.7	8×9	17.00	140	8×9	23.50	140	10×9	18.50	135			
5.6	8×9	17.00	140	8×11.5	15.00	200	8×14	15.00	140	10×14	13.00	130
5.6				10×9	15.00	220	10×9	13.50	140			
6.8	8×11.5	15.00	200	8×11.5	15.00	210	8×16	8.05	220	10×14	13.00	130
6.8	10×9	17.00	210	10×9	15.00	250	10×12.5	12.00	200			
8.2	8×14	11.25	220	8×14	11.00	250	8×16	8.05	220	10×14	11.00	240
8.2	10×9	15.00	250	10×9	11.00	270	10×12.5	12.00	200			
10	8×14	8.05	250	8×16	8.05	270	8×20	8.05	260	8×23	11.00	240
10	10×12.5	11.00	270	10×12.5	11.00	270	10×14	8.05	350	10×16	10.00	260
12	8×20	9.00	360	10×14	9.00	340	10×16	7.90	370	12.5×14	9.50	265
15	8×20	6.50	360	10×14	8.50	340	10×16	7.70	370	12.5×16	8.00	270
15	10×14	6.50	460				12.5×14	7.70	370			
18	10×16	6.50	480	10×16	6.50	360	12.5×16	6.70	410	12.5×16	7.00	470
18	12.5×14	6.50	585	12.5×14	6.50	360						
22	10×20	6.50	585	10×20	6.50	570	12.5×16	6.70	450	12.5×20	7.00	470
22	12.5×14	6.50	585	12.5×16	6.50	570						

Standard Size

Voltage (V)	350			400			450			500			
	Items	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 25±2°C)	Ripple Current (mA/r.m.s /105°C100KHz)
Capacitance (μF)	33	12.5×16	6.50	960	12.5×20	3.25	850	12.5×20	3.05	710	12.5×25	5.50	700
	33				16×16	3.25	900	16×16	3.05	740	16×20	3.50	700
	47	12.5×20	2.25	1115	12.5×25	2.25	1100	12.5×30	1.60	1215	16×25	2.50	720
	47	16×16	2.25	1060	16×20	2.25	1155	16×20	1.60	1215			
	56	12.5×25	2.25	1115	12.5×25	2.25	1155	16×25	1.60	1215	16×31.5	2.30	840
	56	16×20	2.25	1155	16×20	2.25	1400	18×20	1.60	1300	18×25	2.30	840
	68	12.5×30	2.25	1115	16×25	1.60	1460	16×31.5	1.60	1215	18×25	2.30	840
	68	16×20	2.25	1400	18×20	1.60	1530	18×25	1.60	1215			
	82	16×25	1.60	1550	16×31.5	1.60	1740	16×35.5	1.35	1675	18×31.5	1.80	1100
	82	18×20	1.60	1530	18×25	1.60	1740	18×25	1.45	1700			
	100	16×25	1.60	2230	18×25	1.60	1740	18×31.5	1.35	1800	18×35.5	1.50	1150
	120	18×25	1.60	2305	18×31.5	1.50	2305	18×35.5	1.25	1930	18×40	1.40	1200
	150	18×31.5	1.50	2720	18×35.5	1.50	3330	18×40	1.15	2350			

Standard Size (Unit: mm)


L=9	a=1.0
L≤16	a=1.5
L > 16	a=2.0

D	5	6.3	8	10	12.5	16	18
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

Remark: capacitors with diameter more than 6.3 have safety vent

Ripple Current Correction Factor
① Frequency Correction Factor

Frequency(Hz)	50	120	1K	10K~50K	100K
Coefficient	0.40	0.50	0.80	0.90	1.00

② Temperature Correction Factor

Environment Temperature(°C)	50°C	70°C	85°C	105°C
Correction Factor	2.1	1.8	1.4	1.0