



LPS Low-Impedance & Long Life

Features

- Used in communication equipments, switching power supply, Industrial measuring instruments, etc.
- Load life 3000~10000hrs at 105°C
- Safety vent construction design

JACKCON
1500μF 3V 105°C

Specifications

Item	Performance Characteristics																								
Operating Temperature Range	-40 to +105°C										-25 to +105°C														
Rated voltage Range	6.3 to 100 VDC										160 to 450 VDC														
Capacitance Range	22 to 15000 μF										1 to 330 μF														
Capacitance Tolerance	±20%(120Hz, +20°C)										±20%(120Hz, +20°C)														
Leakage Current (+20°C, max.)	I≤0.01 CV or 2(μA) After 2minute whichever is greater measured with rated working voltage applied.										I≤0.03 CV or 3(μA) After 2minute with rated working voltage applied..														
Dissipation Factor (tanδ)	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450										
	D.F.(%)max	22	19	16	14	12	10	9	8	12	12	12	15	15	17										
	For Capacitance > 1000μF , add 2% per another 1000μF (+20°C, at 120Hz)																								
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.																								
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450										
	Z (-25°C)/Z(+20°C)	4	3	3	3	3	3	2	2	3	3	3	5	5	6										
	Z (-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3	-	-	-	-	-	-										
	For Capacitance Value 1000μF , add 0.5 per another 1000μF for -25°C/+20°C																								
	For Capacitance Value 1000μF , add 1 per another 1000μF for -40°C/+20°C																								
Load Life	Standard																								
	DΦ	Life hours																							
	8Φ	3000 ~ 10000																							
	≥10Φ	5000 ~ 10000																							
Shelf Life	Test conditions Duration time : as above Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements:at+20°C Capacitance change:≤±25% of the initial measured value Dissipation Factor: ≤200% of the initial specified value Leakage current: ≤The initial specified value																								
	Test conditions Duration time :1000Hrs Ambient temperature:+105°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																								

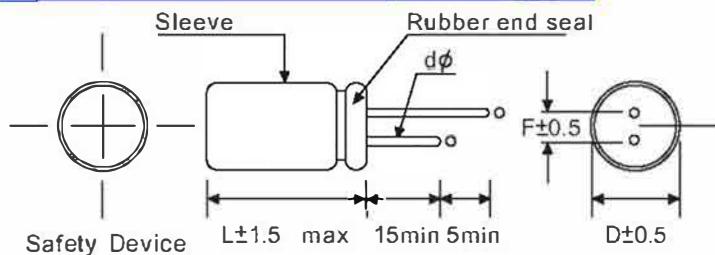
Multifactor for Ripple Current VS. Frequency, CV

CAP(μF)/Hz	50(60)	120	400	1K	10K	10K~
Multiplier	CAP≤10	0.47	0.59	0.76	0.85	0.97
	10<CAP≤100	0.52	0.62	0.80	0.89	0.97
	100<CAP≤10	0.58	0.72	0.84	0.90	0.98
	1000<CAP	0.63	0.78	0.87	0.91	0.98

Multifactor for Ripple Current VS. Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

Diagram of Dimensions: (Unit: mm)



DΦ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dΦ	0.5		0.6		0.8		

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Case Size

$\phi D \times L$ (mm)

W.V. {S.V.}	6.3 {8}			10 {13}			16 {20}			
	μF	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
68	6x11	150	0.60	-	-	-	-	-	-	-
100	-	-	-	5x11	250	0.50	6x11	380	0.32	
220	-	-	-	6x11	350	0.39	6x11 8x11	400 450	0.30 0.25	
270	-	-	-	8x11	390	0.30	8x11	470	0.21	
330	8x11	390	0.42	8x11	460	0.27	8x11	590	0.156	
470	6x11	380	0.14	8x11	550	0.25	8x11	680	0.145	
	8x11	450	0.25	8x14	600	0.23	8x14 10x12	700 750	0.140 0.124	
560	8x11	490	0.23	10x12	635	0.16	10x12	785	0.105	
680	8x11	520	0.21	10x12	765	0.11	10x12 10x15	915 940	0.10 0.092	
820	8x16	620	0.19	10x15	890	0.10	10x17	1140	0.078	
1000	8x16	840	0.12	8x20	950	0.095	10x14	1150	0.075	
	10x12	750	0.17	10x12	850	0.10	10x16	1170	0.070	
1200	10x15	762	0.16	10x17	1100	0.067	10x25	1340	0.061	
1500	10x17	830	0.14	10x20	1260	0.062	13x21	1520	0.056	
1800	10x20	940	0.11	10x25	1430	0.058	13x21	1600	0.047	
2200	10x25	1470	0.095	10x25 13x21	1600 1650	0.050 0.041	13x26	1900	0.038	
2700	10x25	1480	0.079	13x21	1655	0.035	13x26	2100	0.033	
3300	13x21	1650	0.060	13x26	1700	0.031	16x26	2410	0.030	
4700	13x30	2100	0.036	16x26	2100	0.030	16x31	2680	0.026	
5600	13x30	2240	0.034	16x26	2290	0.028	16x36	2760	0.025	
6800	16x26	2400	0.032	16x31	2650	0.026	18x36	2900	0.024	
8200	16x31	2650	0.027	16x36	2770	0.026	18x36	3050	0.024	
10000	16x36	2700	0.024	18x36	2850	0.024	18x41	3550	0.024	
15000	18x36	2950	0.023	-	-	-	-	-	-	

•Ripple Current(mA,rms)at 105°C 100KHz

•Max Impedance { Ω } at 20°C 100KHz



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Case Size

$\phi D \times L$ (mm)

W.V. {S.V.}	25 {32}			35 {44}			50 {63}			
	μF	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
0.47	-	-	-	-	-	-	-	5x11	16	13
2.2	-	-	-	-	-	-	-	5x11	33	2.2
4.7	-	-	-	-	-	-	-	5x11	60	2.7
10	-	-	-	-	-	-	-	5x11	100	1.8
22	-	-	-	-	-	-	-	6x11	110	1.7
47	-	-	-	-	-	-	-	6x11	210	0.9
100	6x11	300	0.38	6x11	390	0.30	8x11	465	0.22	
	8x11	330	0.37	8x11	450	0.25	10x12	480	0.17	
120				8x11	460	0.220	10x12	500	0.156	
150	8x11	390	0.31	8x11	510	0.191	10x12	560	0.132	
180	8x11	430	0.25	10x12	630	0.172	10x15	660	0.114	
220	6x11	510	0.20	10x12	750	0.114	10x17	780	0.096	
	8x11	550	0.15							
270	10x12	720	0.125	10x15	910	0.095	10x20	960	0.078	
330	8x11	710	0.13							
	8x16	820	0.12	10x17	1050	0.079	10x25	1150	0.065	
	10x12	730	0.114							
470	8x14	900	0.090							
	8x20	1000	0.080	10x15	1100	0.070	13x21	1400	0.055	
	10x12	910	0.088	10x20	1200	0.065				
	10x15	1010	0.076							
560	10x17	1050	0.072	10x25	1300	0.061	13x21	1560	0.050	
680	10x20	1220	0.065	13x21	1570	0.056	13x26	1830	0.044	
820	10x25	1410	0.052	13x21	1700	0.048	13x30	1790	0.036	
1000	10x30	1600	0.045							
	13x16	1580	0.050	13x26	1900	0.042	16x26	2100	0.036	
	13x21	1650	0.045							
1200	13x21	1720	0.041	13x30	2130	0.038	16x31	2300	0.036	
1500	13x26	1940	0.038	16x26	2270	0.036	16x36	2430	0.034	
1800	13x26	2050	0.036	16x31	2350	0.035	16x36	2600	0.034	
2200	16x16	2060	0.050	16x26	2500	0.035	18x36	2680	0.032	
	16x26	2100	0.035	16x31	2630	0.034				
	13x21	2070	0.036							
2700	16x26	2340	0.031	16x36	2780	0.029	18x41	2780	0.027	
3300	16x21	2400	0.031	18x36	2900	0.026	18x41	2980	0.025	
	16x31	2580	0.026							
4700	16x36	2960	0.024	18x41	3000	0.024	-	-	-	
5600	18x36	3100	0.024	-	-	-	-	-	-	
6800	18x41	3550	0.024	-	-	-	-	-	-	

• Ripple Current(mA,rms)at 105°C 100KHz

• Max Impedance { Ω } at 20°C 100KHz

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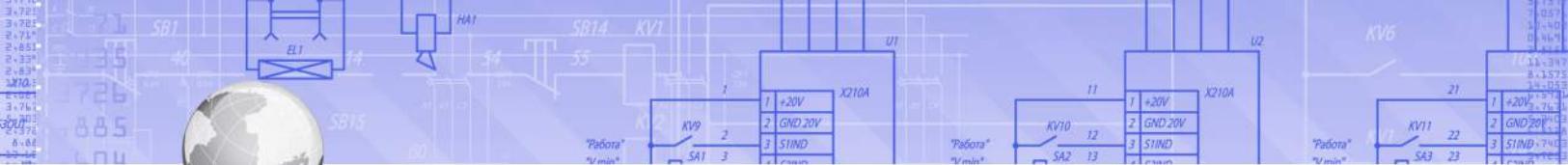
Case Size

$\phi D \times L$ (mm)

W.V. {S.V.}	63 {79}			100 {125}			160 {200}			
	μF	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
3.3	-	-	-	-	-	-	-	8x11	70	4.31
4.7	-	-	-	-	-	-	-	8x11	72	4.16
5.6	-	-	-	-	-	-	-	10x12	91	3.61
6.8	-	-	-	-	-	-	-	10x15	110	3.12
10	-	-	-	6x11	135	1.20	10x17	120	2.69	
22	-	-	-	8x11	220	0.85	10x20	205	1.30	
33	8x11	270	0.61	10x12	320	0.69	13x21	260	1.10	
47	8x11	300	0.56	10x12 10x16	370 420	0.58 0.50	13x21	320	0.91	
56	8x11	330	0.38	10x12	400	0.43	13x21	340	0.67	
68	10x12	420	0.21	10x17	470	0.35	13x26	410	0.56	
100	10x12	500	0.17	10x25	560	0.30	16x26	500	0.47	
	10x15	530	0.14	13x16 13x21	540 560	0.29 0.29				
120	10x17	550	0.125	10x25	660	0.22	16x26	520	0.35	
150	10x17	600	0.111	13x21	780	0.174	16x31	660	0.26	
180	10x20	720	0.096	13x21	820	0.142	16x36	760	0.22	
220	10x25	810	0.080	13x26	880	0.13	16x36	820	0.19	
	13x21	900	0.075	16x26	970	0.11				
270	13x21	1060	0.065	13x30	1120	0.11	18x36	890	0.18	
330	13x21	1250	0.055	16x26	1440	0.10	18x41	1000	0.16	
470	13x26	1620	0.053	16x31	1650	0.09	-	-	-	
	13x30	1650	0.050							
560	13x26	1680	0.049	16x36 18x35	1720 1750	0.085 0.083	-	-	-	
	13x30	1950	0.043							
680	16x25	2000	0.040	18x36	1790	0.080	-	-	-	
	16x26	2150	0.038	18x32 18x36	1770 1840	0.075 0.071				
1000	16x31	2350	0.034	18x41	1930	0.066	-	-	-	
	16x36	2400	0.033							
1200	16x36	2550	0.032	-	-	-	-	-	-	
1500	18x36	2710	0.031	-	-	-	-	-	-	
1800	18x41	3000	0.027	-	-	-	-	-	-	

• Ripple Current(mA,rms)at 105°C 100KHz

• Max Impedance { Ω } at 20°C 100KHz



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Case Size

$\phi D \times L$ (mm)

W.V. {S.V.}	200 {250}			250 {300}			350 {400}			
	μF	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
1	-	-	-	-	-	-	-	8x11	58	6.35
2.2	-	-	-	-	8x11	72	4.12	10x12	86	4.02
3.3	8x11	71	4.25	8x11	75	3.85	10x15	100	3.52	
4.7	10x12	85	4.12	10x12	100	2.95	10x20	110	2.77	
5.6	10x12	92	3.55	10x12	115	2.71	10x20	124	2.58	
6.8	10x15	115	2.71	10x15	140	1.86	10x25	150	1.65	
10	10x15	132	2.02	10x15	160	1.4	10x25	180	1.35	
22	10x20	205	1.20	10x20	210	1.3	13x21	220	1.22	
33	13x21	260	0.62	13x21	260	0.9	13x26	290	0.86	
47	13x26	380	0.51	13x26	405	0.45	16x31	430	0.62	
56	13x26	400	0.45	13x26	420	0.42	16x36	460	0.60	
68	16x26	450	0.35	16x26	490	0.38	16x36	475	0.56	
100	16x26	580	0.19	16x31	675	0.25	18x36	513	0.55	
	16x31	600	0.17							
120	16x31	640	0.17	16x36	730	0.24	18x41	560	0.52	
150	16x36	670	0.16	18x31	750	0.23	-	-	-	
180	18x31	770	0.15	18x36	830	0.21	-	-	-	
220	18x41	860	0.14	18x41	910	0.20	-	-	-	

• Ripple Current(mA,rms)at 105°C 100KHz

• Max Impedance { Ω } at 20°C 100KHz

W.V. {S.V.}	400 {450}			450 {500}			
	μF	Size	Ripple	Impedance	Size	Ripple	Impedance
1	8x11	36	16.5	10x12	36	17.35	
2.2	10x12	65	9.58	10x15	60	10.25	
3.3	10x15	86	5.01	10x20	80	5.65	
4.7	8x16	95	4.95	10x20	105	5.5	
	10x20	120	4.82	10x25	115	5.01	
5.6	10x25	130	4.81	13x21	125	4.92	
6.8	10x25	160	3.55	13x21	145	4.05	
	13x21	170	3.40				
10	10x20	190	3.75	13x21	150	3.90	
	13x21	200	3.32	13x26	165	3.78	
22	13x21	290	3.0	13x26	255	2.8	
	13x26	305	2.65				
	16x20	305	2.65				
33	16x26	335	1.21	16x26	330	2.2	
47	16x31	560	0.92	16x36	550	1.02	
56	16x36	600	0.85	18x31	580	0.95	
68	18x31	750	0.75	18x36	700	0.78	
100	16x36	800	0.60	18x36	800	0.70	
	18x36	850	0.65	22x30	810	0.65	
	18x41	900	0.52	22x42	850	0.55	

• Ripple Current(mA,rms)at 105°C 100KHz

• Max Impedance { Ω } at 20°C 100KHz

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