

LP Series

Features

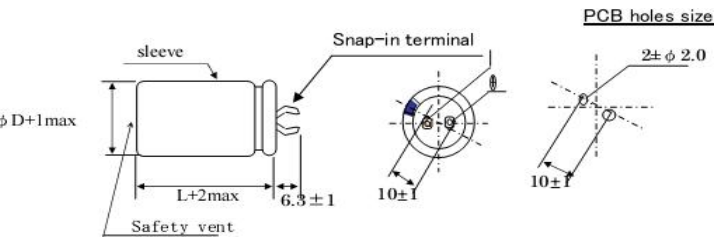
- ◆ High ripple current, smaller size, 2000 hours at 85°C.
- ◆ Snap-in Terminal Type .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics												
Temperature Range	-40~+85℃						-25~+85℃						
Rated Voltage Range	10~100Vdc						160~450Vdc						
Capacitance Range	68~82000μF												
Capacitance Tolerance	±20%（120Hz，+20℃）												
Leakage Current （+20℃,max.）	I≤3√CV（μA） （After 5 minute application of rated voltage at +20℃）												
Dissipation Factor(tgδ) 120Hz，+20℃													
	Working Voltage(Vdc)	10	16	25	35	50	63	80	100	160~250	315~400	450	
	D.F(%)max.	55	50	45	40	35	30	25	20	15	15	20	
	For capacitance>1000μF，Add 2% per another 1000μF.												
Low Temperature Characteristics(120Hz)	Impedance ratio max.												
	Working Voltage(Vdc)		10~100			160~250			315~400			450	
	Z-25℃/ Z+20℃		4			3			5			8	
	Z-40℃/ Z+20℃		15			—			—			—	
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85℃, the capacitors shall meet the following requirements.												
	Capacitance Change		Within ±20% of the initial value										
	Dissipation Factor		No more than 200% of the specification value										
	Leakage Current		No more than the specification value										
Shelf Life	After storing the capacitors under no load at 85℃ for 1000 hours, the characters shall meet the following requirements.												
	Capacitance Change		Within ±20% of the initial value										
	Dissipation Factor		No more than 200% of the specification value										
	Leakage Current		No more than 200%of the specification value										
Others	JISC-5101(IEC 60384)												

Dimensions



Frequency coefficient

Freq(Hz)	50	120	1K	≥10K
WV(V)				
10~100	0.90	1.00	1.15	1.25
160~250	0.80	1.00	1.25	1.47
315~450	0.80	1.00	1.30	1.47

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## Case size & Maximum permissible ripple current

Voltage	10V		16V		25V		35V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
3300							22×25	2.14
4700							25.4×25	2.32
5600							30×25	2.80
6800					22×30	2.56	30×25	3.02
8200			22×25	2.56	30×25	2.99	35×25	3.24
10000	22×25	2.22	25.4×25	2.84	30×25	3.27	35×25	3.47
12000	22×25	2.44	25.4×30	3.18	30×30	3.79	35×30	3.82
15000	22×30	2.90	22×40	3.69	22×50	4.21	30×45	4.70
18000	22×35	3.22	22×45	3.98	25.4×50	4.68	30×50	5.30
22000	22×40	3.79	22×50	4.52	30×40	5.33	35×45	6.11
27000	22×45	4.04	25.4×45	4.98	30×50	6.02	35×50	6.90
33000	25.4×45	4.56	25.4×50	5.45	35×45	6.75		
39000	25.4×50	5.21	30×45	6.11	35×50	7.56		
47000	30×40	5.78	30×50	6.80				
56000	35×35	6.50						
82000	35×50	8.50						

Voltage	50V		63V		80V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
680							22×25	1.53
1000					22×25	1.56	22×30	1.62
1500			20×25	1.69	22×25	1.76	25.4×30	1.86
1800			22×25	1.90	22×30	2.10	30×30	2.28
2200	22×25	1.93	22×30	2.35	25.4×35	2.58	30×35	2.61
2700	22×30	2.21	25.4×30	2.54	30×30	2.65	35×35	3.18
3300	22×35	2.41	22×40	2.72	25.4×45	3.24	30×50	3.42
3900	22×40	2.72	22×45	3.09	25.4×50	3.40	35×40	3.58
4700	22×45	2.88	22×50	3.28	30×45	3.60	35×50	3.72
5600	22×50	3.06	25.4×50	3.86	30×50	3.78		
6800	25.4×45	3.24	30×45	4.32	35×45	4.60		
8200	25.4×50	3.48	30×50	4.44	35×50	4.92		
10000	30×45	3.96	35×45	4.77				
12000	30×50	4.10	35×50	5.46				
15000	35×50	4.80						

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## Case size & Maximum permissible ripple current

Voltage	160V		200V		250V		315V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
150							25.4×25	0.89
180					22×30	0.94	30×25	1.08
220			22×25	0.96	25.4×30	1.17	30×25	1.18
270	22×25	1.05	25.4×25	1.16	30×25	1.23	30×30	1.39
330	22×30	1.28	22×30	1.30	25.4×35	1.41	30×35	1.61
	25.4×25	1.29	25.4×25	1.31	30×30	1.46	35×25	1.55
390	25.4×30	1.53	25.4×30	1.53	25.4×40	1.57	30×40	1.84
	30×25	1.56	30×25	1.56	30×30	1.54	35×30	1.80
470	22×40	1.67	22×40	1.70	25.4×40	1.80	30×45	2.10
	25.4×30	1.60	25.4×30	1.68	30×30	1.76	35×35	2.07
560	22×45	1.95	25.4×35	1.90	30×35	1.99	35×40	2.37
680	22×50	2.15	25.4×40	2.20	30×40	2.35	35×45	2.60
820	25.4×45	2.45	25.4×50	2.55	30×50	2.70	35×50	3.00
1000	25.4×50	2.80	30×45	2.95	35×45	3.10		
1200	30×45	3.10	30×50	3.31	35×50	3.45		
1500	30×50	3.70	35×40	3.70				
1800	35×45	4.00	35×50	4.15				
2200	35×50	4.50						

Voltage	350V		400V		450V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
68			22×25	0.58	22×25	0.52
82			22×25	0.65	22×30	0.62
100	22×25	0.67	25.4×25	0.71	22×35	0.68
120	22×30	0.78	25.4×30	0.87	30×25	0.81
150	22×35	0.94	25.4×30	1.01	30×30	0.99
180	25.4×30	1.06	30×30	1.21	35×25	1.13
220	22×45	1.28	22×50	1.40	25.4×45	1.30
	25.4×35	1.24	25.4×40	1.37	30×35	1.29
	30×30	1.29	30×35	1.43	35×25	1.24
270	22×50	1.48	25.4×45	1.64	25.4×50	1.54
	25.4×45	1.53	30×40	1.71	30×40	1.54
	30×35	1.51	35×30	1.67	35×30	1.50
330	25.4×50	1.72	25.4×50	1.80	30×45	1.70
	30×40	1.72	30×40	1.79	35×35	1.68
390	30×40	1.85	30×50	1.96	35×40	1.85
470	30×45	2.15	35×40	2.24	35×50	2.15
560	35×45	2.45	35×45	2.57		
680	35×50	2.75	35×50	2.85		

Size ΦD×L (mm), Ripple Current (A, rms. /85℃ 120Hz) .

Above size is the standard size for our product. If you need special size please contact our sales offices .