

HP Series

Features

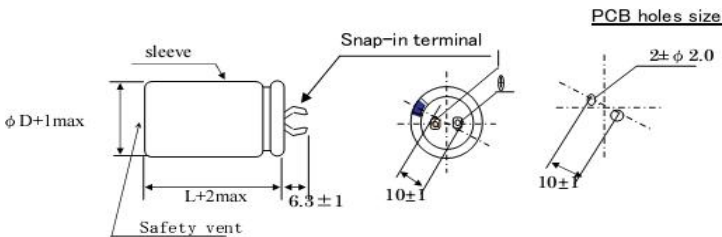
- ◆ High ripple current, smaller size, 2000 hours at 105℃.
- ◆ Snap-in Terminal Type .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics											
Temperature Range	-40~+105℃						-25~+105℃					
Rated Voltage Range	10~100Vdc						160~450Vdc					
Capacitance Range	56~56000μF											
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 105℃,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 105℃ 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							22×30	1.84
3900							22×30	2.02
4700					22×25	1.92	25.4×30	2.23
5600					22×30	2.25	22×40	2.40
6800			22×25	2.02	25.4×25	2.42	30×30	2.61
8200			22×25	2.20	25.4×30	2.74	30×30	2.78
10000	22×25	2.20	22×30	2.79	22×40	3.00	25.4×45	3.20
12000	22×30	2.34	25.4×25	2.74	30×30	3.22	35×30	3.40
15000	22×30	2.76	22×40	3.24	25.4×45	3.60	30×45	3.90
	25.4×25	2.78	25.4×30	3.11	30×35	3.55	35×35	3.84
18000	22×35	2.94	22×45	3.51	25.4×50	3.90	30×50	4.47
	25.4×30	2.99	25.4×35	3.41	30×40	3.90	35×40	4.44
22000	22×40	3.12	25.4×40	3.80	30×45	4.30	35×50	5.24
	25.4×35	3.19	30×35	3.95	35×35	4.23		
33000	25.4×45	3.72	30×45	4.70	35×50	5.54		
39000	25.4×45	4.10	30×50	5.14				
47000	30×45	4.38	35×40	5.76				
56000	30×50	4.64	35×45	6.40				

Voltage	50V		63V		80V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
560							22×25	0.96
680							22×30	1.02
							25.4×25	1.02
820					22×25	1.02	25.4×25	1.25
1000					22×25	1.16	25.4×30	1.40
1200			22×25	0.98	25.4×25	1.47	30×25	1.62
1500	22×25	1.10	25.4×25	1.31	25.4×30	1.61	30×30	1.75
1800	22×25	1.54	25.4×25	1.71	30×25	1.76	35×25	2.12
2200	22×30	1.65	22×35	1.87	22×45	2.03	25.4×50	2.53
	25.4×25	1.66	30×25	1.95	30×30	2.04	30×40	2.52
2700	22×30	1.82	22×40	2.20	22×50	2.39	30×45	2.86
	25.4×25	1.83	30×25	2.17	30×30	2.29	35×35	2.81
3300	22×35	2.00	22×45	2.48	25.4×50	2.64	30×50	3.30
	25.4×30	2.03	30×30	2.49	35×30	2.56	35×40	3.28
3900	22×40	2.23	30×35	2.66	35×30	2.84	35×45	3.57
4700	22×45	2.50	30×35	2.83	35×40	3.47	35×50	3.80
5600	22×50	2.80	30×40	3.22	35×40	3.80		
6800	25.4×50	3.26	30×50	3.84	35×45	4.29		
8200	30×45	3.58	35×40	4.43				
10000	35×40	4.08	35×50	5.11				
12000	35×45	4.56						
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
100							22×25	0.48
120					22×25	0.56	25.4×25	0.59
150					22×30	0.65	25.4×30	0.69
180					25.4×25	0.75	30×25	0.78
220			22×25	0.72	25.4×30	0.86	30×30	0.90
270	22×25	0.80	25.4×25	0.87	30×25	0.99	35×25	0.99
330	22×30	0.96	25.4×25	0.96	30×30	1.18	35×30	1.17
390	22×35	1.10	25.4×30	1.17	30×30	1.21	35×35	1.29
470	22×40	1.31	22×40	1.31	25.4×45	1.38	30×50	1.47
	25.4×35	1.34	30×25	1.29	35×30	1.40	35×40	1.46
560	25.4×35	1.38	30×30	1.46	35×40	1.59	35×45	1.65
680	22×50	1.60	25.4×45	1.70	30×45	1.80	35×50	1.88
	25.4×40	1.57	30×35	1.68	35×35	1.77		
820	25.4×45	1.80	30×40	1.90	35×40	1.95		
1000	30×40	2.00	35×35	2.14	35×50	2.30		
1200	35×35	2.27	35×40	2.38				
1500	35×40	2.64	35×45	2.83				
1800	35×45	3.06	35×50	3.20				
2200	35×50	3.38						

Voltage	350V		400V		450V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56					25.4×25	0.42
68			22×25	0.40	22×30	0.41
82	22×25	0.45	25.4×25	0.51	25.4×30	0.49
100	22×30	0.52	22×30	0.55	22×40	0.53
	25.4×25	0.53	25.4×25	0.56	30×25	0.52
120	22×35	0.61	22×35	0.64	22×45	0.64
	25.4×25	0.58	30×25	0.67	30×30	0.64
150	25.4×30	0.69	22×40	0.73	25.4×40	0.72
	30×25	0.71	30×25	0.72	30×30	0.70
180	25.4×35	0.80	25.4×40	0.83	30×35	0.84
	30×25	0.77	35×25	0.83	35×30	0.87
220	25.4×40	0.96	30×35	1.00	25.4×50	0.93
	30×30	0.94	35×25	0.96	30×40	0.93
330	30×45	1.24	30×45	1.26	30×50	1.24
	35×35	1.22	35×35	1.24	35×40	1.23
390	30×50	1.36	35×40	1.44	35×45	1.40
470	35×40	1.52	35×45	1.65	35×50	1.63
560	35×45	1.65	35×50	1.75		
680	35×50	1.92				

Size ΦD×L (mm), Ripple Current (A, rms. /105℃ 120Hz) .

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