

UP Series

Features

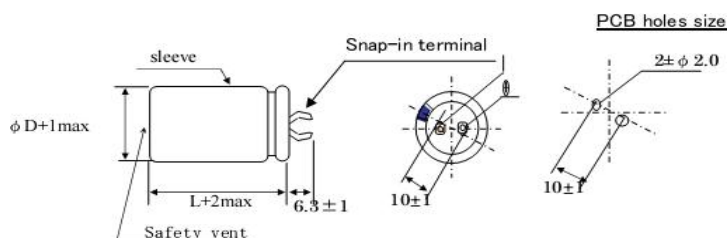
- ◆ High ripple current, smaller size, 5000 hours at 85℃
- ◆ Snap-in Terminal Type.
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics											
Temperature Range	-40~+85℃						-25~+85℃					
Rated Voltage Range	10~100Vdc						160~450Vdc					
Capacitance Range	56~56000μF											
Capacitance Tolerance	±20%（120Hz，+20℃）											
Leakage Current （+20℃,max.）	$I\leq 3\sqrt{CV}$ （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	300~400	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 5000 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) WV(V)	50	120	1K	≥10K
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



UP Series

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
3900							22×25	2.10
4700							25.4×25	2.30
5600					22×25	2.20	25.4×30	2.62
6800					25.4×25	2.45	30×30	3.07
8200			22×25	2.45	25.4×30	2.75	30×30	3.33
10000			22×30	2.60	25.4×30	3.10	30×35	3.60
12000	22×25	2.45	25.4×25	2.90	30×30	3.54	35×30	4.12
15000	22×30	2.80	25.4×30	3.30	30×35	4.10	30×40	4.60
18000	22×35	3.34	22×45	3.81	25.4×45	4.30	30×45	5.10
	25.4×25	3.15	30×30	3.85	35×30	4.39	35×40	5.30
22000	22×40	3.67	25.4×45	4.40	30×45	4.90	35×45	5.70
27000	22×45	4.12	25.4×50	4.65	30×50	5.45	35×50	6.45
33000	22×50	4.63	30×40	5.25	35×45	6.15		
39000	25.4×45	4.90	30×45	5.56				
47000	30×40	5.61	35×45	6.25				
56000	35×35	6.05						

Voltage	50V		63V		80V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
820							22×25	1.70
1000							22×30	1.95
1200					22×25	1.70	25.4×30	2.15
1500					22×30	1.95	25.4×35	2.45
1800			22×25	1.80	25.4×30	2.15	25.4×40	2.75
2200	22×25	1.80	25.4×25	2.00	30×25	2.52	30×35	3.05
2700	22×30	1.95	25.4×30	2.34	30×30	2.86	35×30	3.55
3300	22×35	2.33	25.4×30	2.55	30×35	3.16	30×45	3.90
	25.4×25	2.20	30×25	2.63	35×25	3.10	35×35	3.85
3900	22×40	2.52	22×45	2.88	35×30	3.40	35×40	4.20
	25.4×30	2.40	30×30	2.91	30×40	3.50	30×50	4.25
4700	22×45	2.78	25.4×40	3.18	30×45	3.84	35×45	4.55
5600	22×50	3.00	30×35	3.46	35×40	4.43	35×50	5.10
6800	25.4×45	3.35	30×40	3.98	35×45	4.93		
8200	25.4×50	3.74	30×45	4.39	35×50	5.25		
10000	30×45	4.24	35×45	4.90				
12000	30×50	4.65	35×50	5.45				
15000	35×45	5.30						
18000	35×50	5.90						

UP Series

Case size & Maximum permissible ripple current

Voltage	160V		200V		250V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
82						
100						
120						
150						
180					22×25	0.94
220			22×25	1.10	25.4×25	1.10
270			22×30	1.50	25.4×30	1.22
330	22×25	1.30	25.4×25	1.40	30×25	1.50
390	22×30	1.50	25.4×30	1.60	30×30	1.61
470	22×35	1.78	25.4×35	1.84	30×35	1.80
560	22×35	1.90	25.4×40	2.00	30×40	2.00
680	22×40	2.10	25.4×45	2.30	30×45	2.30
680	25.4×35	2.15	30×35	2.40	35×35	2.40
820	25.4×40	2.40	30×40	2.70	35×40	2.60
1000	25.4×45	2.70	30×45	3.10	35×50	3.00
1200	25.4×50	3.10	30×50	3.40		
1500	30×45	3.70	35×50	3.80		
1800	35×45	3.90				
2200	35×50	4.50				

Voltage	350V		400V		450V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56					22×25	0.45
68			22×25	0.55	22×30	0.57
82	22×25	0.64	22×30	0.62	22×35	0.66
			25.4×25	0.62	25.4×25	0.64
100	22×30	0.76	22×30	0.70	22×35	0.72
			25.4×25	0.70	25.4×30	0.73
150	22×35	0.94	25.4×25	0.70	25.4×30	0.73
	25.4×30	0.94	25.4×30	0.89	25.4×40	0.95
180	22×40	1.10	30×25	0.95	30×30	0.98
	25.4×30	1.12	25.4×35	1.00	30×35	1.10
220	30×30	1.20	30×30	1.10	35×25	1.20
	35×25	1.30	22×50	1.10	25.4×50	1.20
270	25.4×40	1.40	25.4×40	1.20	30×40	1.30
	30×35	1.40	30×35	1.20	35×30	1.30
	35×30	1.40	25.4×45	1.30	30×45	1.40
330	30×40	1.60	30×45	1.60	35×35	1.50
	35×35	1.60	35×35	1.70	35×40	1.80
470	35×45	2.00	35×45	2.10	35×50	2.20
560	35×50	2.30				

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 .