



ALUMINUM ELECTROLYTIC CAPACITOR

WH Lug, Wide temperature range.

☆ Withstand high ripple current.

☆ Suitable for filter of consumer electronic products, such as TV sets, power supplies and power stereos, etc.

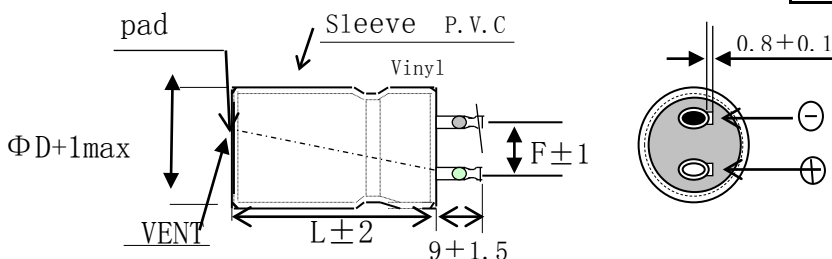
■ Specifications

Operating temperature range	-40~+105°C (10~100V)					-25~+105°C (160~450V)										
Rated voltage range	10~450 V DC															
Nominal capacitance range	22~47000μF															
Capacitance tolerance	±20%					+50% -10% (25°C, 120Hz)										
Leakage current	$I \leq \sqrt{\beta C_R U_R}$ (μA) Whichever is greater (5minutes)															
Tg δ	U _R (V)	10	16~25			35~63		80~100		160~250	300~450					
Dissipation factor (25°C, 120HZ)	C _R (μF)	22000	4700	15000	1000	10000	330	6800	100	22						
		47000	10000	33000	6800	33000	4700	22000	2200	1000						
	tg δ (Max)	0.60	0.35	0.52	0.25	0.32	0.22	0.28	0.25	0.22						
120HZ	U _R (V)	10	16	25	35	50	63	80	100	160	200	250	300	350	400	450
Temperature characteristics	Z-25°C / Z+20°C	—					4		7							
	Z-40°C / Z+20°C	8					—		—							
Load life	After applying rated voltage with specified ripple current for 1000hours at +105°C and then resumed 16hours;															
	Capacitance change : Within ±20% of the initial measured value															
	Leakage current: Not more than the initial specified value															
Shelf life	After storage for 1000hours at +105°C then resumed 16hours;															
	Capacitance change : With ±15% of the initial measured value															
	Leakage current: Not more than 200% of the initial specified value															
Dissipation factor : Not more than 120% of the initial specified value																

■ Case size table

Unit: (mm)

ΦD	22	24	26	30	34	42	50
F	8.4		11.5		14.5	20.5	





RL Long Life Assurance, High Ripple Current

■ Nominal capacitance, rated voltage, rated ripple current and case size table

C _R (μF)	U _R (V)	Item Code	10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		80(1K)		100(2A)			
			D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple
			(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)
330	331																22×30	0.85		
470	471																22×30	1.00		
680	681														22×35	0.90	22×40 24×35	1.10		
1000	102											22×35	0.85	22×40 24×35	1.03	22×50 26×40	1.32			
1500	152											22×40 24×35	1.10	22×50 26×40	1.57	26×50 30×40	1.72			
2200	222									22×35	1.40	22×50 24×40	1.42	26×50 30×40	1.93	30×60 34×50	2.08			
3300	332							22×30 24×25	1.40	22×40 24×35	1.80	26×50 30×40	1.90	30×60 34×50	2.42	30×70 34×60	2.60			
4700	472					22×30 24×25	1.48	22×40 24×35	1.70	24×45 26×40	2.20	30×50 34×40	2.23	30×70 34×60	2.81	34×80 42×60	3.20			
6800	682			22×30 24×25	1.60	22×40 24×35	1.86	26×40	1.92	30×50 34×40	2.60	30×70 34×60	2.82	34×70	3.52	34×100 42×80	4.10			
10000	103			22×35 24×30	1.90	22×50 24×40	2.10	30×50 34×40	2.70	30×70 34×50	3.10	30×80 34×70	3.70	34×80 42×60	4.31	50×100	4.60			
15000	153			22×50 24×40	2.50	24×50 26×40	2.90	30×55 34×45	3.20	30×80 34×70	4.20	34×80 42×60	4.60	50×80	5.30					
22000	223	22×50 24×40	3.10	26×50 30×40	3.20	30×55 34×50	3.80	30×70 34×60	4.40	34×80 42×60	4.70	50×80	5.20	50×100	5.52					
33000	333	24×50 26×45	3.90	34×45 30×50	4.10	30×70 34×60	4.90													
47000	473	30×40 26×50	4.70	30×70 34×60	5.20															

C _R (μF)	U _R (V)	Item Code	16(2C)		200(2D)		250(2E)		300(2F)		350(2V)		400(2G)		450(2W)		
			D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	D×L	Ripple	
			(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	(mm)	(A)	
22	220													22×30	0.22	22×30	0.24
33	330													22×30	0.26	22×30	0.29
47	470									22×30	0.41	22×30	0.44	22×30	0.45	22×30	0.50
68	680									22×30	0.43	22×30	0.47	22×35	0.49	22×40 24×35	0.55
100	101				22×30	0.39	22×35	0.44	22×35	0.47	22×35	0.50	22×40 24×35	0.53	22×50 24×40	0.57	
150	151				22×30	0.54	22×40 26×35	0.60	22×40 26×35	0.66	22×50 24×40	0.68	22×50 26×40	0.76	26×50 30×40	0.85	
220	221	22×30	0.67	22×35	0.73	26×40 30×35	0.78	22×50 26×45	0.84	26×50 30×40	0.89	30×50 34×40	0.97	30×60 34×40	1.02		
330	331	22×40 24×35	0.87	22×40 24×35	0.89	30×50 34×40	0.95	30×50 34×40	1.04	30×60 34×50	1.06	30×70 34×50	1.13	30×70 34×50	1.15		
470	471	24×45 26×40	1.03	22×50 26×45	1.15	30×60 34×50	1.18	30×60 34×50	1.19	30×80 34×70	1.23	34×80 42×60	1.26	34×80 42×80	1.31		
680	681	26×50 30×40	1.41	34×40 30×50	1.46	30×70 34×60	1.48	30×80 34×70	1.49	34×80 42×60	1.54	34×100 42×80	1.60	34×100	2.03		
1000	102	30×60 34×50	1.68	30×70 34×60	1.73	34×100 42×80	1.74	34×100 42×80	1.76								
1500	152	30×70 34×60	2.12	34×80	2.20												
2200	222	34×100 42×80	3.23	34×100	3.40												