



Aluminum Electrolytic Capacitors

HP Series

Features

- PCB Snap-In type 105°C
- Directly mountable on printed circuit board without holders.
- Terminal spacing fixed at 10mm for pc board plug in.

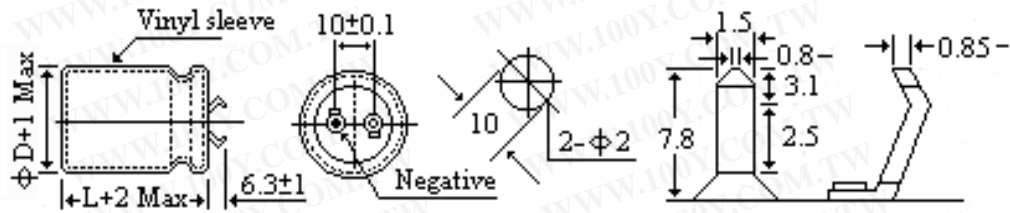
Specification

Items	Performance													
Capacitance Tolerance	±20 % (at 120Hz, 25 °C)													
Rated Voltage Range	16 to 100 VDC	160 to 450 VDC												
Capacitance Range	470 to 47000 uF	330 to 2200 uF												
Operating Temperature Range	-40 to + 105°C	-25 to 105°C												
Leakage Current (at 25°C)	I ≤ 0.03 CV or 8uA , whichever is greater.													
	After 5 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)													
Dissipation Factor (Tan δ at 120Hz, 25°C)	Rate Voltage	10 16 25 35 50 63 100 160 200 250 350 400 450												
	tan δ (max)	0.55 0.45 0.35 0.30 0.25 0.20 0.15 0.15 0.15 0.15 0.15 0.15 0.15												
Low Temperature characteristics (at 120Hz)	Impedance ration shall not exceed the values given in the table below.													
	Rate Voltage	10	16	25	35	50	63	100	160	200	250	350	400	450
	-25°C/25°C	4	4	3	3	2	2	2	4	4	4	4	8	8
	-40°C/25°C	15	15	10	8	6	6	5	4	8	10	16	18	20
Load Life	After 2000 hours application of W.V. at 105°C . the capacitor shall meet the followin limits.													
	Capacitance change	: ≤ ±25% of initial value												
	Dissipation factor	: ≤ 200% of initial specified value												
	Leakage Current	: ≤ Initial specified value												
Shelf Life	After storage for 1000 hours at 105°C, with no voltage applied and being stabilixed at + 25°C, Capacitor shall meet the limit specified in load life.													
Ripple Current & Frequency Multipliers	Freq.(Hz)		60 (50)		120		500		1K		10K up			
	W.V.(V)		0.90		1.00		1.13		1.19		1.20			
	Under 100		0.81		1.00		1.17		1.32		1.45			
	160 to 250		0.77		1.00		1.16		1.30		1.41			
Ripple Current & Temperature Multipliers	Temperature (°C)		85		105									
	Multiplier		1.50		1.00									

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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Dimension : $\phi D \times L$ (mm)

Ripple Current : A/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)			
10	10000	22x32	1.80	16	6800	25x27	1.00	25	4700	22x26	1.00	35	4700	22x35	1.30			
	15000	22x35	2.20		8200	22x30	1.40		6800	22x30	1.30		6800	22x40	1.80	10000	22x40	2.30
		25x30			10000	22x36	1.50			25x27				25x35				
	22000	22x40	2.60		15000	22x40	2.00		10000	22x45	1.90		15000	25x40	3.20	15000	25x40	3.20
		25x36			22000	25x45	2.80			30x30				30x35				
	33000	25x46	3.20		33000	30x35	3.80		33000	30x40	2.80		22000	30x40	4.40	22000	30x45	4.40
		30x36				47000				35x40				3.00			35x48	
	47000	30x48	3.50		47000	35x50	4.90		33000	35x50	4.90		33000	35x50	4.90	22000	35x60	4.40

WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)	WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)			
50	2200	22x30	1.00	63	2200	22x40	1.20	100	680	22x30	0.80	160	330	22x30	0.90			
		25x27				25x30				22x35				22x36				
	3300	22x40	1.10		3300	22x50	1.40		1500	25x30	1.40		680	22x45	1.10	1000	25x35	1.90
		25x30				30x30				25x40				25x45				
	4700	22x50	2.00		4700	25x50	2.30		2200	25x40	2.00		1000	25x50	2.20	1500	30x50	2.20
		25x40				30x40				30x40				30x50				
	6800	25x50	2.80		6800	30x50	3.10		3300	30x50	2.80		2200	30x50	3.20	2200	35x40	3.20
		30x40				10000				35x40				35x40				
	10000	30x50	3.50		10000	35x50	3.90		4700	35x50	3.10		4700	35x50	3.10	4700	35x60	3.40
	15000	35x50	3.60						6800	35x60	3.40		6800	35x60	3.40	6800	35x75	4.40
									10000	35x75	4.40		10000	35x75	4.40			

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200	330	22x30	0.80	250	220	22x30	0.45	350	100	22x30	0.30	400	47	22x26	0.15				
		25x27				25x27				25x27				68		22x26	0.20		
	470	22x40	1.00		330	22x40	0.80		150	22x40	0.40		100	22x35	0.30	100	25x30	0.30	
		25x30				25x30				25x30				150			22x40		0.40
	680	25x40	1.20		470	22x50	1.00		220	25x40	0.50		150	22x40	0.40	150	25x32	0.40	
		30x30				25x40				30x30				220			25x45		0.60
	1000	30x40	1.80		680	25x50	1.20		330	30x40	0.80		220	25x45	0.60	220	30x40	0.60	
		35x35				30x40				35x35				330			30x50		0.80
	1500	35x50	2.30		1000	35x50	1.40		470	35x50	1.00		470	35x50	1.00	470	35x50	1.00	

WV	uF	Case Size $\phi D \times L$ (mm)	Ir (A)
450	47	22x30	0.15
		25x27	
	68	22x36	0.2
		25x30	
	100	25x40	0.3
	150	25x48	0.5
		30x35	
	220	30x48	0.6
	330	30x53	0.8
	470	35x58	1.2

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