



Aluminum Electrolytic Capacitors **LP** Series

Features

- PCB Snap-In type 85°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						47 to 2200 uF						
Operating Temperature Range	-40 to + 85						-25 to 85						
Leakage Current (at 25°C)	I ≤ 0.03 CV or 8 uA , 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	16	25	35	50	63	100	160	200	250	350	400	450
	tan δ (max)	0.50	0.40	0.35	0.30	0.25	0.20	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	16	25	35	50	63	100	160	200	250	350	400	450
	-25°C/25°C	4	3	3	2	2	2	4	4	4	4	4	8
-40°C/25°C	15	10	8	6	6	5	4	8	10	16	18	20	
Load Life	After 2000 hours application of W.V. at 85 °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 85°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	1K	10K	100K		
	W.V.(V)												
	Under 100						0.80	0.90	0.90	1.00	1.00		
	160 to 250						0.70	0.90	0.90	1.00	1.00		
350 to up						0.65	0.90	0.90	1.00	1.00			
Ripple Current & Temperature Multipliers	Temperature (°C)						70			85			
	Multiplier						1.20			0.90			
Standards	Satisfied Characteristic W of JIS C												

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LP Series

Dimension : D x L (mm)

Ripple Current : A/rms at 120Hz,85

DIMENSION & PERMISSIBLE RIPPLE CURRENT

WV	uF	Case Size D x L (mm)	Ir (A)	WV	uF	Case Size D x L (mm)	Ir (A)	WV	uF	Case Size D x L (mm)	Ir (A)	WV	uF	Case Size D x L (mm)	Ir (A)					
250	220	22x36	0.90	350	100	22x30	0.40	400	47	22x26	0.30	450	47	22x26	0.20					
		25x25			150	22x36	0.45		68	22x26	0.40		68	22x26	0.40					
	330	22x40	1.00		220	22x45	1.00		150	22x40	0.70		220	25x41	0.70	150	25x41	0.70		
		25x30				25x40				30x30				25x30			30x30		25x51	
	470	22x45	1.20		330	25x50	1.10		220	22x50	0.90		330	30x48	1.00	450	220	25x51	1.00	
		25x40				30x40				25x40				30x48			30x50			
		30x30				30x50				30x30				35x46			35x46			
	680	25x50	2.00		470	35x50	1.30		330	25x51	1.00		470	35x50	1.60	450	470	35x50	1.60	
		30x40				680				35x60				2.00			330	30x47		1.00
	1000	30x50	3.00																	
		35x42																		
		1500			35x60	3.20														