

Aluminum Electrolytic Capacitors

LHD series

- Low impedance, Super small size, 105°C V-chip, 2000 hours .
- Applicable to SMT process.
- RoHS Compliance.
- 105°C低阻抗、超小体积、V-Chip型產品，2000小時。
- 適用於SMT製程。

SPECIFICATIONS

Items 項 目	Characteristics 特 性						
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz , 20℃)						
Operating Temperature Range 適用溫度範圍	-55 ~ +105℃						
Rated Voltage Range 額定電壓範圍	6.3 ~ 50VDC						
Capacitance Range 靜電容量範圍	10 ~ 2200μF						
Leakage Current 洩漏電流	I ≦ 0.01CV or 3(μA), which is greater. (After 2 minutes application of DC rated voltage, at 20℃)						
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃						
	Rated Voltage(V)	6.3	10	16	25	35	50
	tan δ(Max)	0.3	0.19	0.16	0.14	0.12	0.10
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.						
	Rated Voltage(V)	6.3	10	16	25	35	50
	Z(-25℃)/Z(20℃)	4	3	2	2	2	2
	Z(-55℃)/Z(20℃)	8	5	4	3	3	3
Load Life 負荷壽命	2000hours,with application of rated voltage at 105℃						
	Capacitance Change	Within ± 20% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.						
	Capacitance Change	Within ± 20% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Resistance to Soldering Heat 焊錫耐熱性	The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.						
	Capacitance Change	Within ± 10% of Initial Value					
	tan δ	Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
AEC-Q200 標識	Comply with AECQ200 standard						

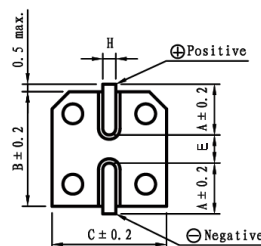
Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	120	1K	10K	100K
Cap (uF)				
< 470	0.65	0.85	0.95	1.00
≥ 560	0.70	0.90	0.95	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

LHD series

■ Chip Type



DxL	Φ4×5.8	Φ5×5.8	Φ6.3×5.8	Φ6.3×7.7	Φ8×10.5	Φ8×12.5	Φ10×10.5	Φ10×12.5
L	5.8	5.8	5.8	7.7	10.5	12.5	10.5	12.5
B.C.	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3
2A+E	5.5	6.5	7.8	7.8	10.0	10.0	12.0	12.0
I	1.8	2.1	2.4	2.4	3.4	3.4	3.5	3.5
E	1.0	1.3	2.2	2.2	3.1	3.1	4.5	4.5
K	0.35±0.2	0.35±0.2	0.35±0.2	0.35±0.2	0.7±0.2	0.7±0.2	0.7±0.2	0.7±0.2

D×L(mm) ; R.C.(mA rms) at 105°C 100KHz, IMP (Ω max) at 20°C 100KHz.

[illegible]

D×L(mm) ; R.C.(mA rms) at 105°C 100KHz, IMP (Ω max) at 20°C 100KHz.

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