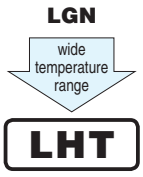
ALUMINUM ELECTROLYTIC CAPACITORS

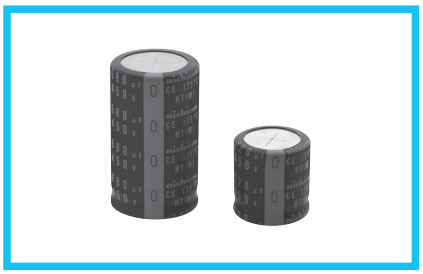
nichicon

LHT

Snap-in Terminal Type, 125°C Wide Temperature Range

- Wide temperature Range of LGN.
- Contributing to high temperature support of equipment.
- Compliant of the RoHS directive (2011/65/EU,(EU)2015/863).

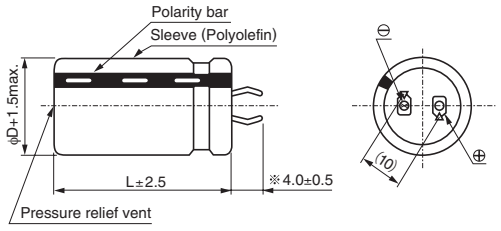


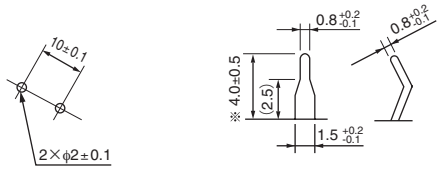


■Specifications

Item	Performance Characteristics
Category Temperature Range	– 40 to +125°C
Rated Voltage Range	450V
Rated Capacitance Range	220 to 680μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	$I \leqq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage at 20°C) [C : Rated Capacitance (μF) V : Voltage (V)]
Tangent of loss angle (tan δ)	0.20max. 120Hz at 20°C
Stability at Low Temperature	Impedance ratio Z(–25°C) / Z(+20°C) ≦ 8 (120Hz)
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 125°C, the peak voltage shall not exceed the rated voltage.
	Capacitance change: Within ±20% of the initial capacitance value tan δ: 200% or less than the initial specified value Leakage current: Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage tretment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the requirements listed at right.
	Capacitance change: Within ±15% of the initial capacitance value tan δ: 150% or less than the initial specified value Leakage current: Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.

■Drawing

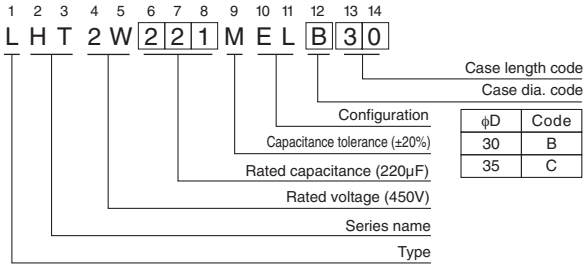




(PC board hole dimensions) (Terminal dimensions)

※ Other terminations available upon request.
Please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Type numbering system (Example : 450V 220μF)



φD	Code
30	B
35	C

■Dimensions

450V (2W)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
220	30 × 30	1120	0.94	LHT2W221MELB30
270	30 × 35	1270	1.04	LHT2W271MELB35
	35 × 30	1340	1.04	LHT2W271MELC30
330	30 × 45	1480	1.15	LHT2W331MELB45
	35 × 35	1510	1.15	LHT2W331MELC35
390	30 × 50	1640	1.25	LHT2W391MELB50
	35 × 40	1700	1.25	LHT2W391MELC40
470	30 × 55	1840	1.37	LHT2W471MELB55
	35 × 45	1910	1.37	LHT2W471MELC45
560	35 × 50	2130	1.50	LHT2W561MELC50
680	35 × 60	2430	1.65	LHT2W681MELC60

Rated ripple current (mArms) at 125°C 120Hz

● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1 k	10k	50k or more
Coefficient	0.77	0.82	1.00	1.16	1.30	1.41	1.43