

ALUMINUM ELECTROLYTIC CAPACITORS

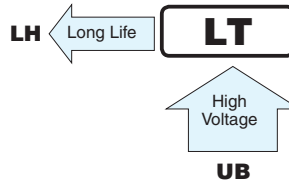
nichicon

LT Chip Type, High Voltage.
High Temperature Range.
series



Upgrade

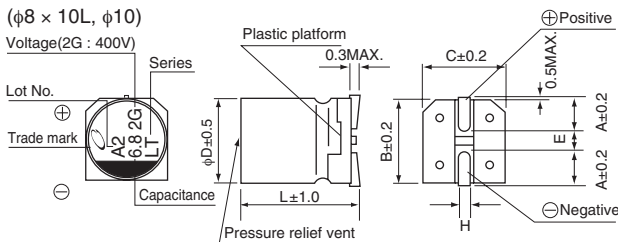
- Chip type, high voltage and high temperature range.
- Load life of 2000 hours at +125°C.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics	
Category Temperature Range	-40 to +125°C	
Rated Voltage Range	160 to 500V	
Rated Capacitance Range	1.8 to 33μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	Rated voltage (V)	160~450
	—	0.04CV+100(μA)max.(1 minute's)
Tangent of loss angle (tan δ)	Rated voltage (V)	500
	—	0.04CV+200(μA)max.(1 minute's)
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C	
	Rated voltage (V)	160 200 250 400 450 500
Endurance	tan δ (MAX.)	0.20 0.20 0.25 0.25 0.30 0.30
	Measurement frequency : 120Hz	
Shelf Life	Rated voltage (V)	160 200 250 400 450 500
	Impedance ratio ZT / Z20 (MAX.)	6 6 10 10 15 15
Resistance to soldering heat	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 125°C.	
	Capacitance change	Within ±30% of the initial capacitance value
Marking	tan δ	300% 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 treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.	
	Capacitance change	Within ±10% of the initial capacitance value
Resistance to soldering heat	tan δ	Less than or equal to the initial specified value
	Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.	

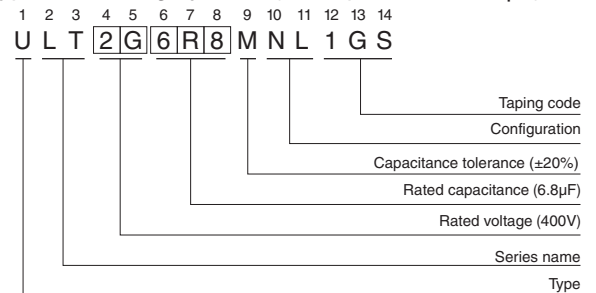
Chip Type



φD×L	8×10	10×10	10×13.5
A	2.9	3.2	3.2
B	8.3	10.3	10.3
C	8.3	10.3	10.3
E	3.1	4.5	4.5
L	10	10	13.5
H	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

V	160	200	250	400	450	500
Code	2C	2D	2E	2G	2W	2H

Type numbering system (Example : 400V 6.8μF)



Dimensions

Cap.(μF)	V	160	200	250	400	450	500
Code	2C	2D	2E	2G	2W	2H	
1.8	1R8						8×10 20
3.3	3R3						10×10 35
3.9	3R9						
4.7	4R7						10×13.5 40
5.6	5R6						
6.8	6R8						
7.5	7R5						
8.2	8R2						
10	100			8×10 30			
12	120		8×10 45		10×13.5 50		
15	150	8×10 45		10×10 45			
18	180		10×10 60	10×13.5 50			
22	220	10×10 60					
27	270		10×13.5 65				
33	330	10×13.5 65					

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

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

CAT.8100D