

ALUMINUM ELECTROLYTIC CAPACITORS

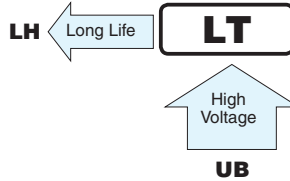
nichicon

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



Upgrade

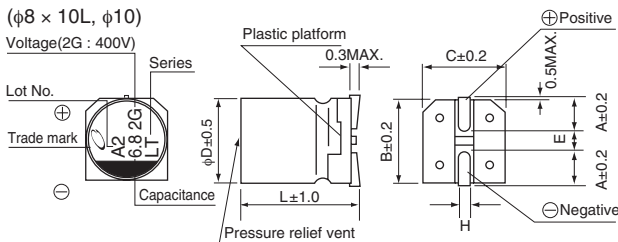
- Chip type, high voltage and high temperature range.
- Load life of 2000 hours at +125°C.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



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)	Measurement frequency : 120Hz at 20°C	
	Rated voltage (V)	160 200 250 400 450 500
Stability at Low Temperature	Measurement frequency : 120Hz	
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C
Endurance	Capacitance change	Within ±30% of the initial capacitance value
	tan δ	300% or less than the initial specified value
Shelf Life	Leakage current	Less than or equal to the initial specified value
	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.	
Resistance to soldering heat	Capacitance change	Within ±10% of the initial capacitance value
	tan δ	Less than or equal to the initial specified value
Marking	Leakage current	Less than or equal to the initial specified value
	Black print on the case top.	

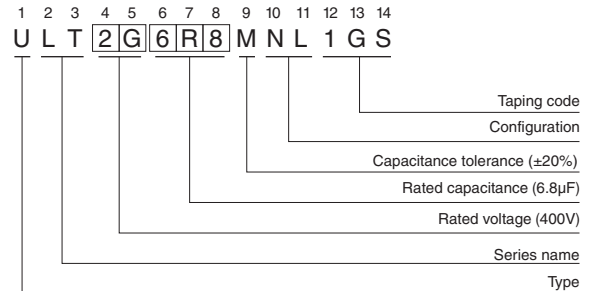
Chip Type



φD×L (mm)	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

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

Type numbering system (Example : 400V 6.8μF)



Dimensions

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