

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

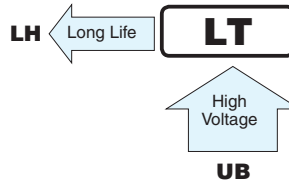


Chip Type, High Voltage.
High Temperature Range.
series



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).

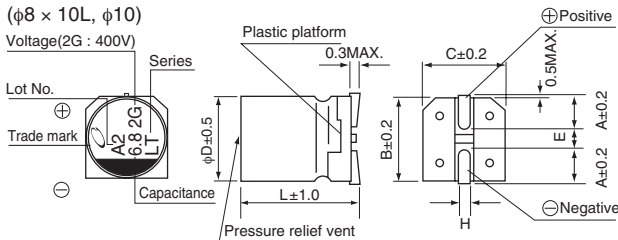


Specifications

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				500	
	-	0.04CV+100(μA)max.(1 minute's)				0.04CV+200(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
	tan δ (MAX.)	0.20	0.20	0.25	0.25	0.30	0.30
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)	160	200	250	400	450	500
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	6	6	10	10	15
Endurance	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
					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.						
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right when they are removed from the plate.				Capacitance change		Within ±10% of the initial capacitance value
					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

(φ8 × 10L, φ10)
Voltage(2G : 400V)

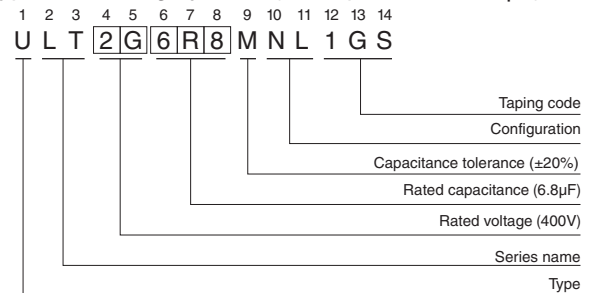


φD × L	8 × 10	10 × 10	10 × 13.5
A	2.9	3.2	3.2
B	8.3	10.3	10.3
C	8.3	10.3	10.3
E	3.1	4.5	4.5
L	10	10	13.5
H	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

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)	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 (mA rms) 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