

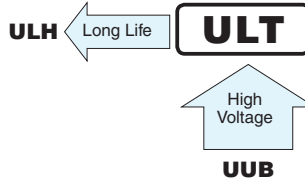
ALUMINUM ELECTROLYTIC CAPACITORS

ULT

Chip Type, High Voltage.
High Temperature Range.



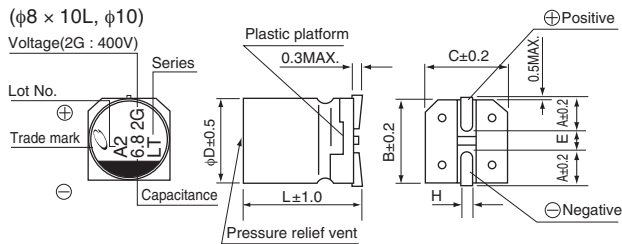
- Chip type, high voltage and high temperature range.
- Load life of 2000 hours at +125°C.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



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	Measurement frequency : 120Hz						
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	6	6	10	10	15
Shelf Life	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		
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.		Leakage current		Less than or equal to the initial specified value		
			Capacitance change		Within ±10% of the initial capacitance value		
Marking	Black print on the case top.		tan δ		Less than or equal to the initial specified value		
			Leakage current		Less than or equal to the initial specified value		

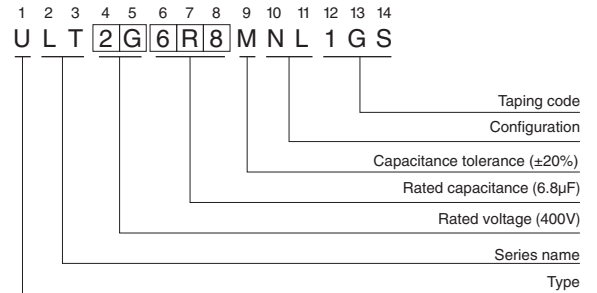
Chip Type



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	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						
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.