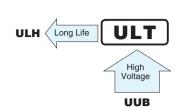
ALUMINUM ELECTROLYTIC CAPACITORS





- 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).

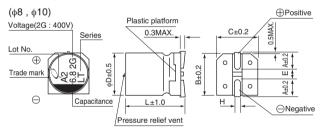




Specifications

Item						Performa	ance Ch	aracteris	stics			
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)	50			500							
Leakage Current	- 0.04CV+100(μA)max.(1 minute's at 20°C) 0.04CV+200(μA)max.(1 minute's at 20°C)											
			Measur	ement	t freque	ncy : 120l	Hz at 20	°C				
Tangent of loss angle (tan δ)	Rated voltage (V)	160	200	25	50	400	450	50	00			
3 a a a a a a a a a a a a a a a a a a a	tan δ (MAX.)	0.20	0.20	0.	25	0.25	0.30	0.3	30			
	Measurement frequency : 120Hz											
Stability at Low Temperature	Rated voltage (V)			0	200	250	400	450		500	7	
	Impedance ratio ZT / Z20 (MAX.)	40°C / Z+20	o°C 6	i	6	10	10	15		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.						$\begin{tabular}{lll} Capacitance change & Within \pm 30\% of the initial capation \delta & 300\% or less than the initial sp. \\ Leakage current & Less than or equal to the initial sp. \\ \hline \end{tabular}$				l 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 tan δ Leakage current				Within ±10% of the initial of Less than or equal to the in Less than or equal to the in	nitial specified value	
Marking	Black print on the ca	se top.										

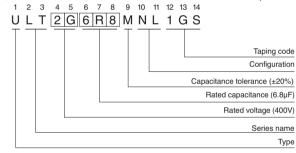
■Chip Type



			(mm)	
¢D×L	8 × 10	10×10	10×13.5	
Α	2.9	3.2	3.2	
В	8.3	10.3	10.3	
С	8.3	10.3	10.3	
E	3.1	4.5	4.5	
L	10	10	13.5	
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	

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

Type numbering system (Example : 400V $6.8 \mu F$)



Dimensions

	V	16	60	200		250		400		450		500	
Cap.(µF)	Code	2	С	2D		2E		2G		2W		2H	
1.8	1R8				1							8 × 10	20
3.3	3R3					!				8×10	20	10×10	35
3.9	3R9		i		i	i		8×10	30	i		i	
4.7	4R7		l I		l I							10 × 13.5	40
5.6	5R6									10×10	35		
6.8	6R8							10×10	45				
7.5	7R5									10 × 13.5	40		
8.2	8R2					8×10	30						
10	100							10 × 13.5	50				
12	120			8×10	45								
15	150	8 × 10	45			10×10	45	i .				i	
18	180			10×10	60	10 × 13.5	50						
22	220	10×10	60										
27	270			10 × 13.5	65							Case size	Rated
33	330	10 × 13.5	65									$\phi D \times L (mm)$	ripple

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.