ALUMINUM ELECTROLYTIC CAPACITORS



Chip Type, High Voltage. High Reliability.



- Chip type, High voltage and High Reliability.
- Load life of 4000 hours at +125°C.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

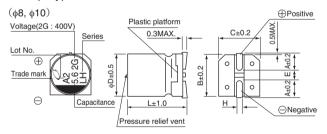




■ Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to +125°C								
Rated Voltage Range	160 to 450V								
Rated Capacitance Range	2.2 to 27µF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not mor	re than 0.04CV+100 (μA).							
	Measurement frequency : 120Hz at 20°C	Measurement frequency : 120Hz at 20°C							
Tangent of loss angle (tan δ)									
	tan δ (MAX.) 0.20 0.20 0.25 0.25 0.30								
	Measurement frequency :	120Hz							
	Rated voltage (V) 160 200 250 400	450							
Stability at Low Temperature	Impedance ratio 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 4000 hours at 125°C.	nce change Within ±30% of the initial capacitance value 300% or less than the intial specified value 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.	nce change Within ±10% of the initial capacitance value Less than or equal to the initial specified value current Less than or equal to the initial specified value							
Marking	Black print on the case top.								

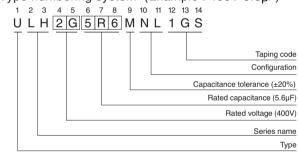
■Chip Type



			(mm)	
φD×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	
Е	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	

Voltage					
V	160	200	250	400	450
Code	2C	2D	2F	2G	2W

Type numbering system (Example : 400V $5.6\mu F$)



■ Dimensions

V 160		200		250		400		450			
Cap.(µF)	Code	2	С	2	D	2	E	20	G	2V	/
2.2	2R2				l I		I I			8×10	20
3.3	3R3						ļ	8×10	30		
3.9	3R9						i			10 × 10	35
5.6	5R6						l I	10 × 10	45	10 × 13.5	40
7.5	7R5					8×10	¦ 30	10 × 13.5	50		
10	100			8×10	45						
12	120	8×10	45			10 × 10	45				
15	150			10 × 10	60	10 × 13.5	¦ 50				
18	180	10 × 10	60				İ				
22	220			10 × 13.5	65		i			Case size	Rated
27	270	10 × 13.5	65							$\phi D \times L (mm)$	Rated ripple

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

Frequency coefficient of rated ripple current

	Trequency coefficient of fated hippie carrent								
	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.