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.
- Adapted to the RoHS directive (2011/65/EU).

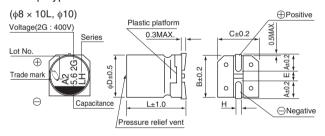




■ Specifications

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	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute's application of rated volta	ge, lea	kage curi	ent is not	more tha	n 0.04CV+	-100 (µ	uA).		
	Mea	sureme	nt freque	ncy : 120H	Hz at 20°C	;				
Tangent of loss angle (tan δ)	Rated voltage (V) 160 200		250	400	450					
	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 ZT / Z20 (MAX.)	6	6	10	10	15				
Endurance	The specifications listed at right shall capacitors are restored to 20°C after applied for 4000 hours at 125°C.			tan δ	itance cha		Within ±30% of the initial capacitance value 300% or less than the initial specified value 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 510 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.					tance cha	Ŭ	Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value		
Marking	Black print on the case top.									

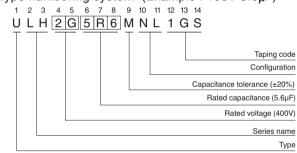
■Chip Type



			(mm)	
φD×L	8×10	10×10	10 × 13.5	
Α	2.9	3.2	3.2 10.3	
В	8.3	10.3		
С	8.3	10.3	10.3	
E	3.1	4.5	4.5	
Ĺ	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 5.6µF)



■ Dimensions

	V	10	60	20	0	25	50	40	0	450)
Cap.(µF)	Code	2	С	2[)	2	E	20	G .	2W	1
2.2	2R2		I I							8×10	20
3.3	3R3		ļ.	!				8×10	30		
3.9	3R9		j					i		10×10	35
5.6	5R6		l					10×10	45	10 × 13.5	40
7.5	7R5		!			8×10	30	10 × 13.5	50		
10	100		i	8×10	45			Į.			
12	120	8×10	45	1		10 × 10	45				
15	150		1	10 × 10	60	10 × 13.5	50	!		1	
18	180	10 × 10	60							1	
22	220		i	10 × 13.5	65	i		i		Case size	Rated
27	270	10 > 13.5	65							φD×I (mm)	rinnle

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

• Frequency coefficient of rated ripple current

	Trequency coefficient of fated rippie current										
- 1 7		50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more					
		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.