imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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).

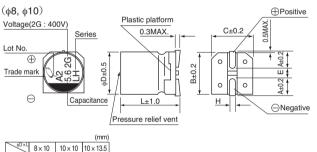




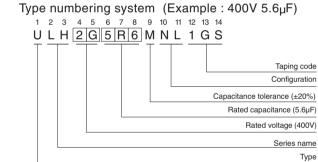
Specifications

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										
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.04CV+100 (μA).										
	Measurement frequency : 120Hz 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 Z-40°C / Z+20°C 6 6 10 10 15										
Endurance	Capacitance changeWithin $\pm 30\%$ of the initial capacitance valuecapacitors are restored to 20°C after the rated voltage is applied for 4000 hours at 125°C.Capacitance valueLeakage currentLess 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 $\pm 10\%$ 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



- 1		0/110	10 / 10	10 / 10.0						
	А	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	Voltage					
	L	10	10	13.5	V	160	200	250	400	450
	Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	Code	2C	2D	2E	2G	2W



Dimensions

V		16	60	2	00	25	50	40	00	45	0
Cap.(µF) Code		2	С	2	D	2	E	20	G	20	V
2.2	2R2		1		1		1			8×10	20
3.3	3R3				1		1	8×10	30	!	
3.9	3R9		i .				1			10 × 10	35
5.6	5R6		1		1		1	10 × 10	45	10 × 13.5	40
7.5	7R5		1			8×10	¦ 30	10 × 13.5	50		
10	100			8×10	45						
12	120	8×10	45		1	10 × 10	45 H				
15	150		1	10 × 10	60	10 × 13.5	¦ 50				
18	180	10 × 10	60				1				
22	220		1	10 × 13.5	65		1			Case size	Rated
27	270	10 × 13.5	65				1			$\phi D \times L (mm)$	Rated ripple

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

• 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.

• Frequency coefficient of rated ripple current

Frequency	50 Hz	50 Hz 120 Hz		1 kHz	10 kHz or more	
Coefficient	0.70	1.00	1.17	1.36	1.50	

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