

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

LV

Chip Type, High Voltage.
Long Life.
series



For SMD



Long Life

NEW

- Chip Type, high voltage and long life.
- Load life of 10000 hours at +105°C
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).

LV

Long Life

LR



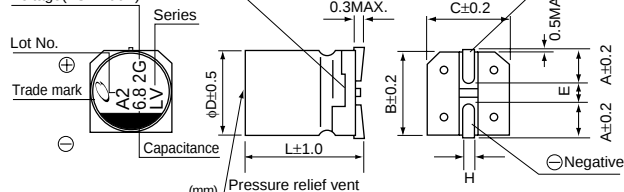
Specifications

Item	Performance Characteristics						
Category Temperature Range	-40 to +105°C						
Rated Voltage Range	160 to 450V						
Rated Capacitance Range	3.3 to 33μF						
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).						
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C						
	Rated voltage (V)	160	200	250	400	450	
	tan δ (MAX.)	0.20	0.20	0.25	0.25	0.30	
Stability at Low Temperature	Measurement frequency: 120Hz						
	Rated voltage (V)		160	200	250	400	450
	Impedance ratio ZT / Z20 (MAX.)	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 10000 hours at 105°C.					Capacitance change	Within ±30% of the initial capacitance value
						tan δ	300% or less than the initial specified value
						Leakage current	Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 105°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. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.					Capacitance change	Within ±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

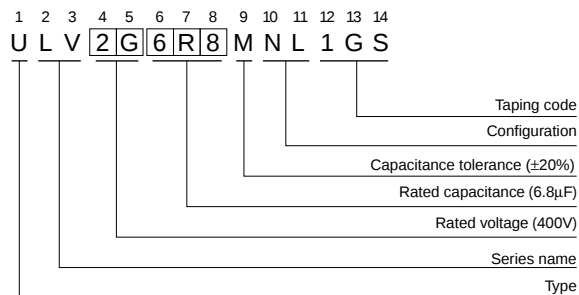
(φ8 × 10L, φ10)

Voltage(2G : 400V)



φD × L	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

Type numbering system (Example : 400V 6.8μF)



Dimensions

Cap.(μF)	V	160	200	250	400	450
	Code	2C	2D	2E	2G	2W
3.3	3R3					8 × 10 25
3.9	3R9				8 × 10 35	
5.6	5R6				10 × 10 50	10 × 10 40
6.8	6R8					10 × 13.5 45
7.5	7R5					
8.2	8R2			8 × 10 35		
10	100				10 × 13.5 55	
12	120		8 × 10 50			
15	150	8 × 10 50		10 × 10 50		
18	180		10 × 10 65	10 × 13.5 55		
22	220	10 × 10 65				
27	270		10 × 13.5 70			
33	330	10 × 13.5 70				
						Case size φD × L (mm) Rated ripple

Rated ripple current (mA rms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.60

- 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.

CAT.8100B