

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

ULV

Chip Type, High Voltage.
Long Life.



- Chip Type, high voltage and long life.
- Load life of 10000 hours at +105°C
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

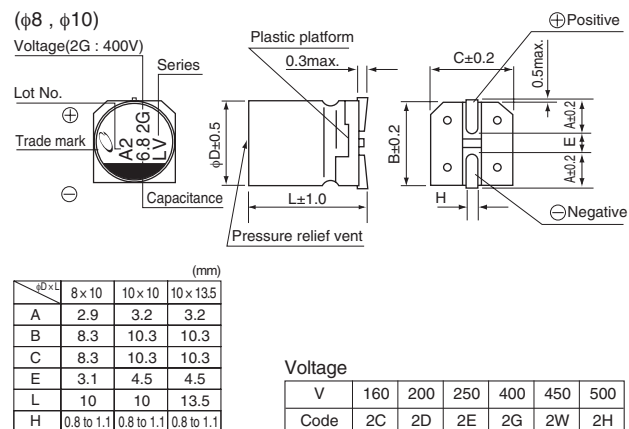


Specifications

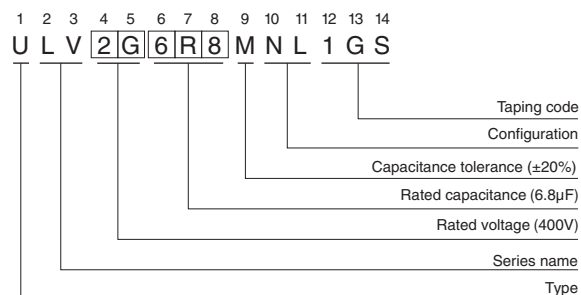
Item	Performance Characteristics							
Category Temperature Range	-40 to +105°C							
Rated Voltage Range	160 to 500V							
Rated Capacitance Range	1.8 to 33μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current ※	Rated voltage (V)		160 to 450				500	
	-		0.04CV+100(μA)max.(1 minute's at 20°C)				0.04CV+200(μA)max.(1 minute's at 20°C)	
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C							
	Rated voltage (V)	160	200	250	400	450	500	
	tan δ (max.)	0.20	0.20	0.25	0.25	0.30	0.30	
Stability at Low Temperature	Measurement frequency: 120Hz							
	Rated voltage (V)		160	200	250	400	450	500
	Impedance ratio ZT / Z20 (max.)	Z(-40°C) / Z(+20°C)	6	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 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 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 ±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.							

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Chip Type



Type numbering system (Example : 400V 6.8μF)



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

●Dimension table in next page.

CAT.8100L

ULV

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mA _{rms}) (105°C/120Hz)	Part Number
160 (2C)	15	8 $\times$ 10	0.20	196	50	ULV2C150MNL1GS
	22	10 $\times$ 10	0.20	240.8	65	ULV2C220MNL1GS
	33	10 $\times$ 13.5	0.20	311.2	70	ULV2C330MNL1GS
200 (2D)	12	8 $\times$ 10	0.20	196	50	ULV2D120MNL1GS
	18	10 $\times$ 10	0.20	244	65	ULV2D180MNL1GS
	27	10 $\times$ 13.5	0.20	316	70	ULV2D270MNL1GS
250 (2E)	8.2	8 $\times$ 10	0.25	182	35	ULV2E8R2MNL1GS
	15	10 $\times$ 10	0.25	250	50	ULV2E150MNL1GS
	18	10 $\times$ 13.5	0.25	280	55	ULV2E180MNL1GS
400 (2G)	3.9	8 $\times$ 10	0.25	162.4	35	ULV2G3R9MNL1GS
	6.8	10 $\times$ 10	0.25	208.8	50	ULV2G6R8MNL1GS
	10	10 $\times$ 13.5	0.25	260	55	ULV2G100MNL1GS
450 (2W)	3.3	8 $\times$ 10	0.30	159.4	25	ULV2W3R3MNL1GS
	5.6	10 $\times$ 10	0.30	200.8	40	ULV2W5R6MNL1GS
	7.5	10 $\times$ 13.5	0.30	235	45	ULV2W7R5MNL1GS
500 (2H)	1.8	8 $\times$ 10	0.30	236	25	ULV2H1R8MNL1GS
	3.3	10 $\times$ 10	0.30	266	40	ULV2H3R3MNL1GS
	4.7	10 $\times$ 13.5	0.30	294	45	ULV2H4R7MNL1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.