



**THE DATASHEET OF
ULV2D120MNL1GS**



ALUMINUM ELECTROLYTIC CAPACITORS

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 Qualified. Please contact us for details.

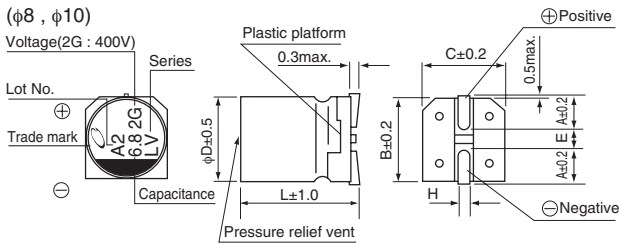


Specifications

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						
	-	0.04CV+100(μA)max.(1 minute's at 20°C)						
Tangent of loss angle (tan δ)	500							
	0.04CV+200(μA)max.(1 minute's at 20°C)							
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C							
	Rated voltage (V)	160	200	250	400	450	500	
Endurance	Measurement frequency: 120Hz							
	Rated voltage (V)	160	200	250	400	450	500	
Shelf Life	Impedance ratio	Z(-40°C) / Z(+20°C)	6	6	10	10	15	15
	ZT / Z20 (max.)							
Resistance to soldering heat	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			
Marking	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.		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			
Black print on the case top.								

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

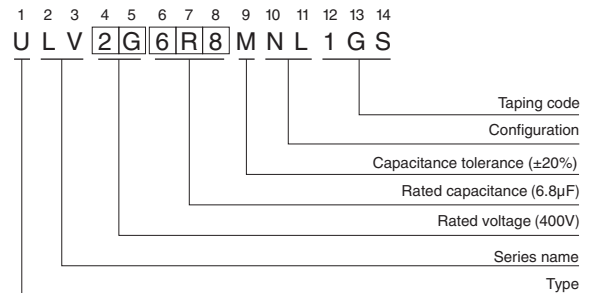
Chip Type



(mm)	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

Voltage	
V	160 200 250 400 450 500
Code	2C 2D 2E 2G 2W 2H

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.

ULV

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D \times L (mm)	tan δ	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms) (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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View ULV2D120MNL1GS on WIN SOURCE](#)
-  [Nichicon Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management