



Chip Type, High Voltage.
Long Life.



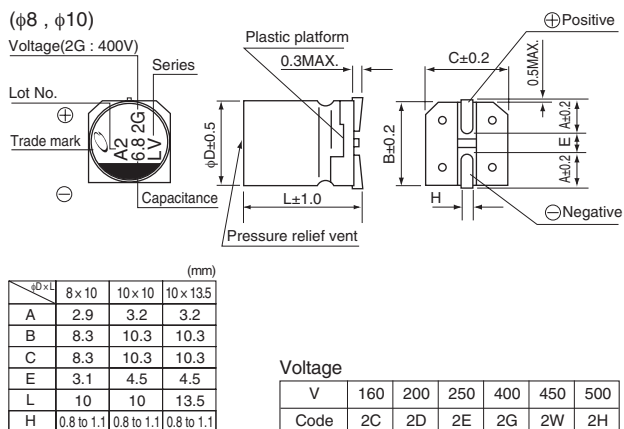
- Chip Type, high voltage and long life.
- Load life of 10000 hours at +105°C
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



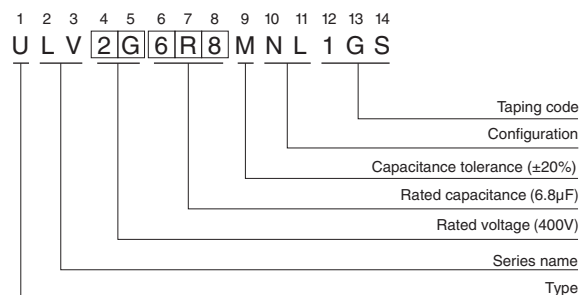
Specifications

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
	-	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)
	Measurement frequency : 120Hz at 20°C	
Stability at Low Temperature	Rated voltage (V)	160 200 250 400 450 500
	tan δ (MAX.)	0.20 0.20 0.25 0.25 0.30 0.30
Endurance	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
Shelf Life	Capacitance change	Within ±30% of the initial capacitance value
	tan δ	300% or less than the initial specified value
Resistance to soldering heat	Leakage current	Less than or equal to the initial specified value
	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



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)	$\tan \delta$	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.

Mouser Electronics

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