## ALUMINUM ELECTROLYTIC CAPACITORS

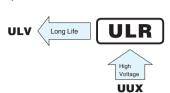
### nichicon



Chip Type, High Voltage.

For SMD

- Chip Type, high Voltage.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

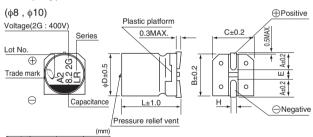




#### Specifications

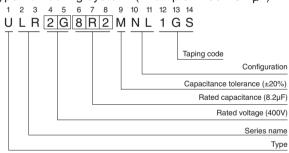
Item	Performance Characteristics											
Category Temperature Range	-40 to +105°C											
Rated Voltage Range	160 to 500V											
Rated Capacitance Range	2.7 to 39µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV +100(μA).											
Tangent of loss angle (tan $\delta)$	Measurement frequency : 120Hz at 20°C   Rated voltage (V) 160 200 250 400 450 500   tan δ (MAX.) 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	Capacitance changeWithin $\pm 20\%$ of the initial capacitance valuecapacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105°C.Capacitance valueLeakage currentLess 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 $\pm 10\%$ of the initial capacitance value tan $\delta$ 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



			(1101)							
P×L	8×10	10 × 10	10 × 13.5							
А	2.9	3.2	3.2							
В	8.3	10.3	10.3							
С	8.3	10.3	10.3	Voltage						
Е	3.1	4.5	4.5	<u> </u>	400		050	400	450	500
L	10	10	13.5	V	160	200	250	400	450	500
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	Code	2C	2D	2E	2G	2W	2H

# Type numbering system (Example : 400V 8.2µF)



#### Dimensions

	V	16	60	20	00	25	50	40	0	45	0	50	0
Cap.(µF) Code		2C		2D		2E		2G		2W		2H	
2.7	2R7											8 × 10	20
3.9	3R9	1					1			8×10	25	10×10 !	35
4.7	4R7							8×10	35	İ			
5.6	5R6											10 × 13.5	40
6.8	6R8						1			10×10	40	1	
8.2	8R2	i		1				10 × 10	50	i		i	
10	100					8 × 10	35			10 × 13.5	45		
12	120			8×10	50			10 × 13.5	55				
15	150	8×10	50	i		10 × 10	50			i		i	
22	220			10×10	65	10 × 13.5	55						
27	270	10 × 10	65				1						
33	330			10 × 13.5	70		i					Case size	Rated
39	390	10 × 13.5	70									$\phi D \times L (mm)^{\downarrow}$	ripple

#### • 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

Rated ripple current (mArms) at 105°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.

CAT.8100G