ALUMINUM ELECTROLYTIC CAPACITORS

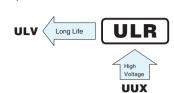
nichicon



Chip Type, High Voltage.



- Chip Type, high Voltage.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.

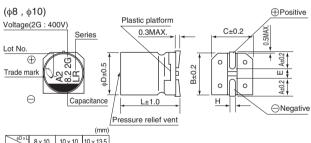




Specifications

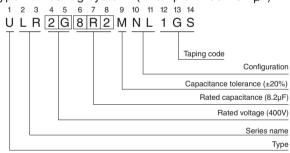
Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	160 to 500V										
Rated Capacitance Range	2.7 to 39µF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV +100(µA).										
Tangent of loss angle (tan $\boldsymbol{\delta})$	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 specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105°C.Capacitance changeWithin $\pm 20\%$ of the initial capacitance value tan δ 200% or less than the initial specified 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. $\begin{array}{c c} Capacitance \ change \ Within \pm 10\% \ of the initial capacitance value \\ tan \delta \ Less than or equal to the initial specified value \\ Leakage \ current \ Less than or equal to the initial specified value \\ \end{array}$										
Marking	Black print on the case top.										

Chip Type



\sim	8 X 10	10 X 10	10 X 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							1-0	
L	10	10	13.5	1	V	160	200	250	400	450	500
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	1	Code	2C	2D	2E	2G	2W	2H

Type numbering system (Example : 400V 8.2µF)



Dimensions

F

	V	16	60	20	00	25	50	40	0	45	50	50	0
Cap.(µF)	Code	2C		2D		2E		2G		2W		2H	
2.7	2R7						1					8 × 10	20
3.9	3R9									8×10	25	10×10	35
4.7	4R7						l	8×10	35			i	
5.6	5R6											10 × 13.5	40
6.8	6R8						!	1		10×10	40		
8.2	8R2						i	10 × 10	50				
10	100					8 × 10	35			10 × 13.5	45		
12	120			8×10	50			10 × 13.5	55				
15	150	8×10	50			10 × 10	50						
22	220			10×10	65	10 × 13.5	55						
27	270	10 × 10	65										
33	330			10 × 13.5	70		i					Case size	Rated
39	390	10 × 13.5	70									$\phi D \times L (mm)^{+}$	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.8100H