

nichicon



For SMD

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- Diagram illustrating the relationship between LV (Long Life) and LR (Long Range) in the context of High Voltage (UX).
- The diagram shows a box labeled LR (Long Range) with an arrow pointing up to it labeled High Voltage (UX). To the left of the LR box is a box labeled LV (Long Life) with an arrow pointing left towards the LR box.



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, leakage current is not more than 0.04CV +100(μA).						
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 3000 hours at 105°C.					Capacitance change	Within ±20% of the initial capacitance value
						tan δ	200% 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.						

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14

U L R 2 G 8 R 2 M N L 1 G S

Taping code

Configuration

Capacitance tolerance ($\pm 20\%$)

Rated capacitance ($8.2\mu\text{F}$)

Rated voltage (400V)

Series name

Type

Cap.(μF)	V Code	160 2C		200 2D		250 2E		400 2G		450 2W		500 2H	
2.7	2R7											8×10	20
3.9	3R9									8×10	25	10×10	35
4.7	4R7							8×10	35				
5.6	5R6											10×13.5	40
6.8	6R8									10×10	40		
8.2	8R2							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								
39	390	10×13.5	70									Case size φ D × L (mm)	Rated ripple

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.60

- 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.8100C