

nichicon

Chip Type, High Voltage.
High Reliability.
series



For SMD

Long Life

- LH ← Long Life LT



Item	Performance Characteristics							
Category Temperature Range	-40 to +125°C							
Rated Voltage Range	160 to 450V							
Rated Capacitance Range	2.2 to 27μF							
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		
	tan δ (MAX.)	0.20	0.20	0.25	0.25	0.30		
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	160	200	250	400	450		
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	6	6	10	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 4000 hours at 125°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	
Shelf Life	After storing the capacitors under no load at 125°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.							

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

U L H 2 G 5 R 6 M N L 1 G S

Type

Series name

Rated voltage (400V)

Rated capacitance (5.6µF)

Capacitance tolerance (±20%)

Configuration

Taping code

	(mm)		
$\phi D \times L$	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
Code	2C	2D	2E	2G	2W

Cap.(μF)	V Code	160 2C		200 2D		250 2E		400 2G		450 2W	
2.2	2R2									8×10	20
3.3	3R3							8×10	30		
3.9	3R9									10×10	35
5.6	5R6							10×10	45	10×13.5	40
7.5	7R5					8×10	30	10×13.5	50		
10	100			8×10	45						
12	120	8×10	45			10×10	45				
15	150			10×10	60	10×13.5	50				
18	180	10×10	60								
22	220			10×13.5	65						
27	270	10×13.5	65							Case size φ D × L (mm)	Rated ripple

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- 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