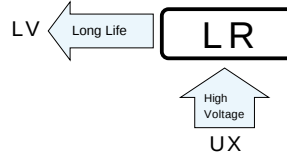


LR series

Chip Type, High Voltage.



- Chip Type, high Voltage.
- Applicable to automatic mounting machine using carrier tape.
- Adapted 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, 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.							

Chip Type

(φ8 × 10L, φ10)

Voltage(2G : 400V)

Lot No.

Trade mark

Series

Capacitance

Pressure relief vent

Plastic platform

0.3MAX.

C±0.2

0.5MAX.

B±0.2

E

A±0.2

H

L±1.0

φD±0.5

Positive

Negative

(mm)

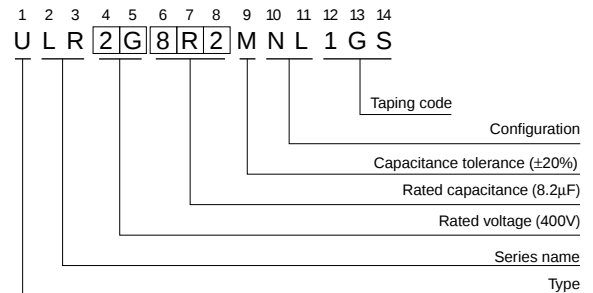
φD×L	8×10	10×10	10×13.5
A	2.9	3.2	3.2
B	8.3	10.3	10.3
C	8.3	10.3	10.3
E	3.1	4.5	4.5
L	10	10	13.5
H	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Voltage

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

Code

Type numbering system (Example : 400V 8.2μF)



Dimensions

Cap. (μF)	V	160	200	250	400	450	500
Code	Code	2C	2D	2E	2G	2W	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	10×13.5 45	
10	100			8×10 35			
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 φD×L (mm) Rated ripple

Rated ripple current (mA rms) at 105°C 120Hz

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

- 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