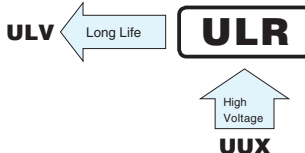


ULR

Chip Type, High Voltage.



- Chip Type, high Voltage.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



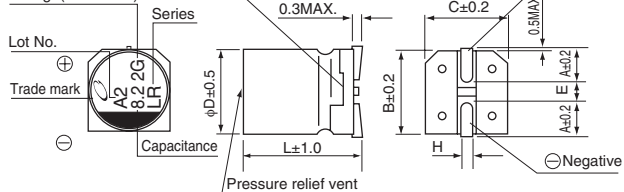
Specifications

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 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, φ10)

Voltage(2G : 400V)

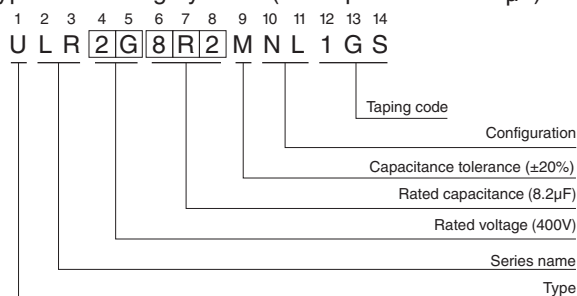


φD×L	8×10	10×10	10×13.5
A	2.9	3.2	3.2
B	8.3	10.3	10.3
C	8.3	10.3	10.3
E	3.1	4.5	4.5
L	10	10	13.5
H	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Voltage

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

Type numbering system (Example : 400V 8.2μF)



Dimensions

Cap.(μF)	V	160	200	250	400	450	500
Code	2C	2D	2E	2G	2W	2H	
2.7	2R7						8×10 20
3.9	3R9						10×10 35
4.7	4R7						
5.6	5R6				8×10 35		
6.8	6R8					10×10 40	10×13.5 40
8.2	8R2				10×10 50		
10	100			8×10 35	10×13.5 55	10×13.5 45	
12	120		8×10 50				
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 (mArms) 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.