

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UT

6mmL Chip Type, Wide Temperature Range

series



For SMD



Anti-Solvent
Feature

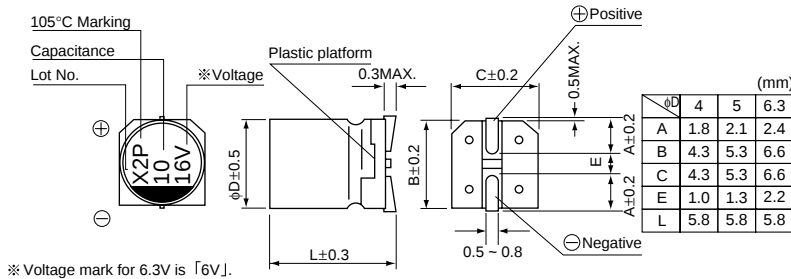
- Chip type with load life 2000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



Specifications

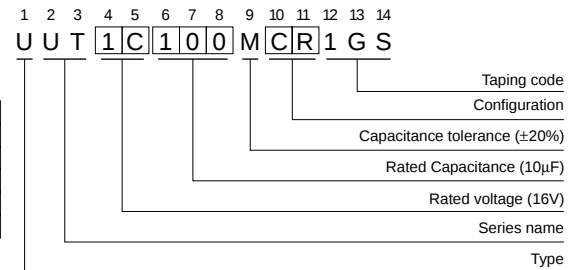
Item	Performance Characteristics								
Category Temperature Range	-55 ~ +105°C								
Rated Voltage Range	4 ~ 50V								
Rated Capacitance Range	0.1 ~ 100μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.								
tan δ	Measurement frequency :120Hz, Temperature : 20°C								
	Rated voltage (V)	4	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12	
Stability at Low Temperature	Measurement frequency :120Hz								
	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio	Z-25°C / Z+20°C	6	3	3	2	2	2	2
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	5	4	3	3	3
Endurance	After 2000 hours' application of rated voltage at 105°C , capacitors meet the characteristic requirements listed at right.				Capacitance change		Within ±25% of initial value (16V or less)		
					tan δ		200% or less of initial specified value		
					Leakage current		Initial specified value or less		
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.								
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.				Capacitance change		Within ±10% of initial value		
					tan δ		Initial specified value or less		
					Leakage current		Initial specified value or less		
Marking	Black print on the case top.								

Chip Type



※ Voltage mark for 6.3V is 「6V」.

Type numbering system (Example : 16V 10μF)



- The lead-free product is also available upon request.
- In this case, **L** will be put at 11th digit of type numbering system.

Dimensions

V	4	6.3	10	16	25	35	50
Cap. (μF)	0G	0J	1A	1C	1E	1V	1H
0.1	0R1						4 1.0
0.22	R22						4 2.6
0.33	R33						4 3.2
0.47	R47						4 3.8
1	010						4 6.2
2.2	2R2						4 11
3.3	3R3						4 14
4.7	4R7						5 19
10	100			4 18	5 23	5 25	6.3 30
22	220	4 22	4 22	5 27	5 30	6.3 38	6.3 42
33	330	5 30	5 30	5 35	6.3 40	6.3 48	
47	470	5 36	5 36	6.3 46	6.3 50		
100	101	6.3 60	6.3 60	6.3 60			

Rated Ripple (mA rms) at 105°C 120Hz

Frequency coefficient of rated ripple current

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

- Taping specifications are given in page 22.
- Recommended land size are given in page 23
- Please refer to page 3 for the minimum order quantity.

CAT.8100T