

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



6mmL Chip Type, Wide Temperature Range

series



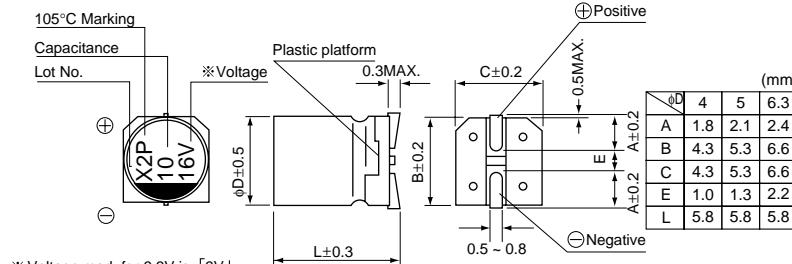
- Chip type with load life 2000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



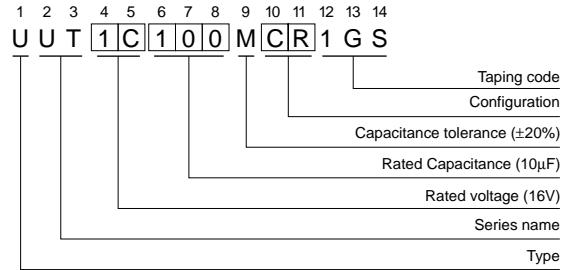
■ Specifications

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) Within ±20% of initial value (25V or more)					
					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



Type numbering system (Example : 16V 10μF)



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

■ Dimensions

Cap.(μF)	V	4	6.3	10	16	25	35	50
Code	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					4 13	4 15	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