# **ALUMINUM ELECTROLYTIC CAPACITORS**









- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).

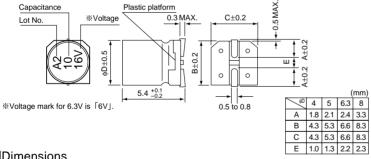




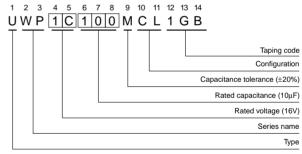
#### ■Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 100μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05CV or 10 (µA) ,whichever is greater.										
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	1	0	16	25	35		50		
	tan δ (MAX.)	0.24	0.2	20	0.17	0.17	0.15	5	0.15		
	Measurement frequency : 120Hz										
O. 1. 177	Rated	oltage (V)		6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+	20°C	4	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+	20°C	8	6	4	4	3	120Hz at 20°C 50 0.15  Jency: 120Hz 50 2 3  If the initial capa and the initial spual to the		
	The specifications listed at right shall be met Capacitance change   Within ±20% of the initial capacitance value										
Endurance	when the capacitors are restored to 20°C after the					tarice criange	_				
Liluulaile	rated voltage is ap				tan δ Leakag	e current		200% or less than the i			
	with the polarity in	erted every 2	50 hour	S.	Lounag	,		z. squar	ii iii ii	F	
Shelf Life	After storing the ca	pacitors under	r no loa	d at 85°C f	or 1000 ho	urs and then	performing	voltage	treatment b	ased on JIS C 5101-	
Stiell Lile	clause 4.1 at 20°C	they shall me	et the s	specified va	lues for the	e endurance	characteris	tics listed	d above.		
	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are						Capacitance change Wi		Within ±10% of the initial capacitance value		
Resistance to soldering							tan δ		Less than or equal to the initial specified value		
heat	removed from the				/ are		e current	equency: 120Hz at 20°C 35 50 .15 0.15  ment frequency: 120Hz 35 50 2 2 2 3 3 3  in ±20% of the initial capacitance v 6 or less than the initial specified va than or equal to the initial specified va ting voltage treatment based on eristics listed above.  ange Within ±10% of the initial cap Less than or equal to the initial			
Made			71 EU 10 2	20 0.						·	
Marking	Black print on the	case top.									

### ■Chip Type



## Type numbering system (Example : $16V 10\mu F$ )



#### **■**Dimensions

	V	6	.3	1	0	1	6	2	25	3	35	5	0
Cap. (µF) Code		0J		1A		1C		1E		1V		1H	
0.1	0R1											4	1.0
0.22	R22						-		i		İ	4	2.0
0.33	R33		!						!		!	4	2.8
0.47	R47						1					4	4.0
1	010		ļ				}		!		!	4	8.4
2.2	2R2									4	8.4	5	13
3.3	3R3						İ	5	12	5	16	5	17
4.7	4R7					4	12	5	16	5	18	6.3	20
10	100		i	4	17	5	23	6.3	27	6.3	29	8	36
22	220	5	28	6.3	33	6.3	37	8	50	8	54		
33	330	6.3	37	6.3	41	6.3	49	8	61				
47	470	6.3	45	8	61	8	75		!		!		Rated
100	101	8	82									Case size	ripple

Rated ripple current (mArms) at 85°C 120Hz

## • Frequency coefficient of rated ripple current

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 select UN(p.118) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.