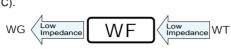
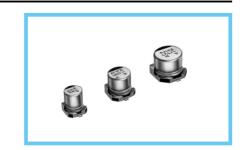
# **ALUMINUM ELECTROLYTIC CAPACITORS**

Chip Type, Low Impedance



- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).

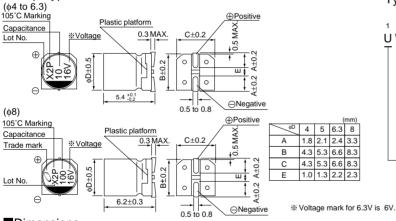




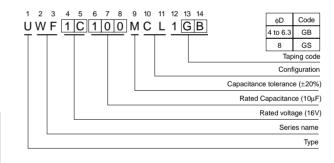
## ■Specifications

Item	Performance Characteristics											
Category Temperature Range	−55 to +105°C											
Rated Voltage Range	6.3 to 35V											
Rated Capacitance Range	1 to 220µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.											
	Measurement frequency : 120Hz, Temperature : 20°C											
tan δ	Rated voltage (V) 6.3		10	16	2	-	35					
	tan δ (MAX.)	0.22	0.19	0.16	0.	14	0.12					
	Measurement frequency : 120Hz											
O. 177	Rated voltage (V)		6.3	10	16	25	35					
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+2	20°C 2	2	2	2	2					
	ZT / Z20 (MAX.)	Z-55°C / Z+2	20°C 4	4	3	3	3					
F. 1	After 1000 hours' ap	•	•					20% of initial value				
Endurance	at 105°C, capacitor		acteristic		tan δ			or less of initial specified value				
	requirements listed at right.  Leakage current Initial specified value or less											
	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at											
Shelf Life	20°C, they will meet the specified value for endurance characteristics listed above.											
	The capacitors shall	be kept on the	hot plate mainta	ained at 250	Capacitance change Within ±10% of initial value							
Resistance to soldering	for 30 seconds. After removing from the hot plate and restored						ance change					
heat	at room temperature	e characteristic	requirement	s listed	tan δ  Leakage current		Initial specified value or less					
	at right.				Leakage	current	Initial specified value or less					
Marking	Black print on the case top.											





## Type numbering system (Example: 16V 10µF)



### Dimensions

	V	6.3		10		16			25			35				
o. (µF) Code 0J		1A			1C			1E			1V					
1	010			l I			1			l I			1	4	5.0	50
1.5	1R5			l I			1			l I			l	4	5.0	50
2.2	2R2			l I			1			l I			 	4	5.0	50
3.3	3R3			I I			1			l I			 	4	5.0	50
4.7	4R7			I I			1			l I	4	5.0	50	4	5.0	50
6.8	6R8			I I			1			l I	4	5.0	50	5	2.6	¦ 80
10	100			l I			1	4	5.0	¦ 50	5	2.6	80	5	2.6	¦ 80
15	150			l I			I I	5	2.6	¦ 80	6.3	1.3	115	6.3	¦ 1.3	115
22	220	4	5.0	¦ 50	5	2.6	80	5	2.6	¦ 80	6.3	1.3	115	6.3	¦ 1.3	¦ 115
33	330	5	2.6	¦ 80	5	2.6	¦ 80	6.3	1.3	¦ 115	6.3	1.3	115	8	0.8	¦ 150
47	470	5	2.6	¦ 80	6.3	1.3	115	6.3	1.3	¦ 115	8	0.8	150	8	0.8	¦ 150
68	680	6.3	1.3	115	6.3	1.3	115	8	8.0	150	8	0.8	150		I I	1
100	101	6.3	1.3	¦ 115	8	0.8	150	8	0.8	150			1		I I	1
150	151	8	0.8	150	8	0.8	150			 			1	Case size	Impedance	Rated
220	221	8	0.8	150			1			I			İ			ripple

### Frequency coefficient of rated ripple current

•					
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UJ(p.92) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity

**CAT.8100W**