

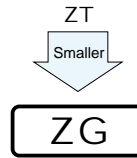
# ALUMINUM ELECTROLYTIC CAPACITORS



**ZG** 3.95mmL MAX. Chip Type,  
Wide Temperature Range  
series



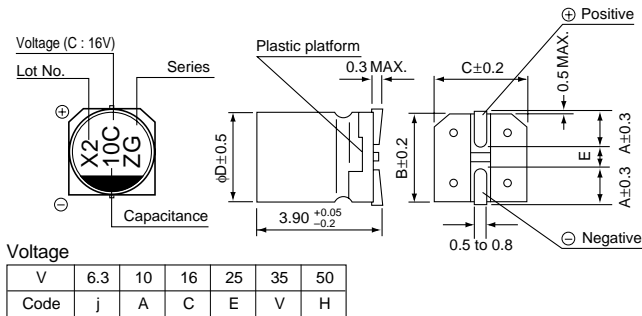
- Chip type with 3.95mmLMAX height. Operating over wide temperature range of -40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



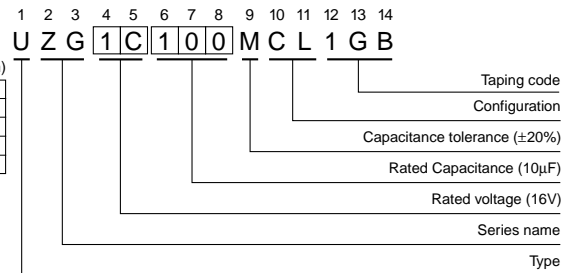
## Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to +105°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 0.01 CV or 3 (μA), whichever is greater.								
tan δ	Rated voltage (V)	6.3	10	16	25	35	50	120Hz 20°C	
	tan δ (MAX.)	0.38	0.32	0.20	0.16	0.14	0.14		
Stability at Low Temperature	Rated voltage (V)	6.3	10	16	25	35	50	120Hz	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	6	5	3	3	3		3
		Z-40°C / Z+20°C	10	10	6	6	4		4
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.							Capacitance change	Within ±30% of initial value
								tan δ	300% or less of initial specified value
								Leakage current	Initial specified value or less
Shelf Life	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 20°C, they will 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)



## Dimensions

Cap. (μF)	Code	V		6.3		10		16		25		35		50	
		0J	1A	1C	1E	1V	1H								
0.1	0R1											4	0.9		
0.22	R22											4	2.2		
0.33	R33											4	2.8		
0.47	R47											4	3.3		
1	010											4	5.4		
2.2	2R2											4	9.6		
3.3	3R3											4	12		
4.7	4R7								4	11	4	13	5	16	
10	100							4	16	5	20	5	22	6.3	26
22	220	4	19	5	24	5	26	6.3	33	6.3	36				
33	330	5	26	5	30	6.3	35	6.3	42						
47	470	5	32	6.3	40	6.3	44								
100	101	6.3	52												

Rated Ripple (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	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 23.
- Recommended land size are given in page 18.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.

CAT.8100W