



3.95mmL MAX. Chip Type,
Wide Temperature Range
series



For SMD

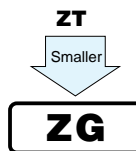


Smaller



Anti-Solvent
Feature

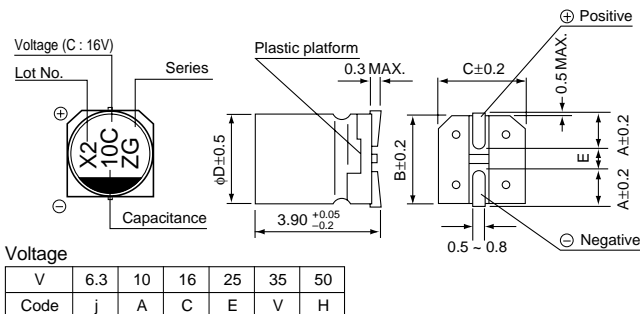
- Chip type with 3.95mmLMAX height. Operating over wide temperature range of $-40 \sim +105^{\circ}\text{C}$.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



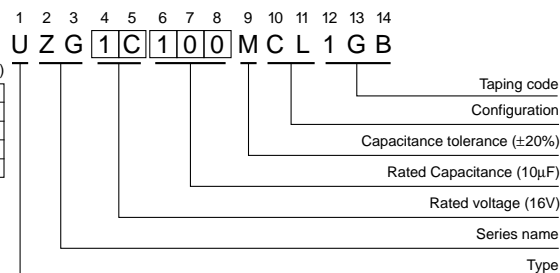
Specifications

Item	Performance Characteristics							
Category Temperature Range	-40 ~ +105°C							
Rated Voltage Range	6.3 ~ 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	Rated voltage (V)	6.3	10	16	25	35	50	120Hz
	tan δ (MAX.)	0.38	0.32	0.20	0.16	0.14	0.14	20°C
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	
		Z-40°C / Z+20°C	10	10	6	6	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 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 10 μF)



Dimensions

V		6.3	10	16	25	35	50
Cap. (μF)	Code	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					Case size ϕD (mm)

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 24.
- Recommended land size are given in page 25.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.

CAT.8100U