

UZG

3.95mmL MAX. Chip Type,
Wide Temperature Range

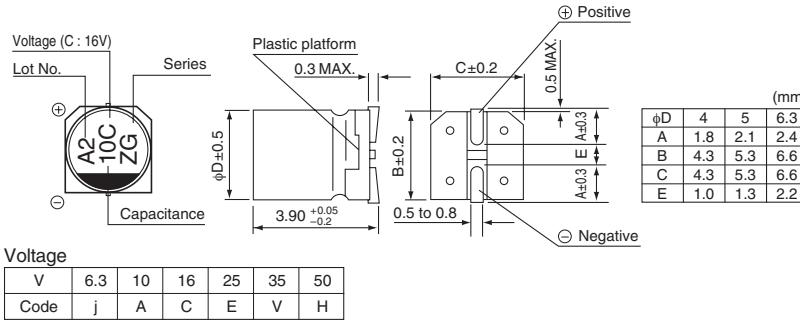
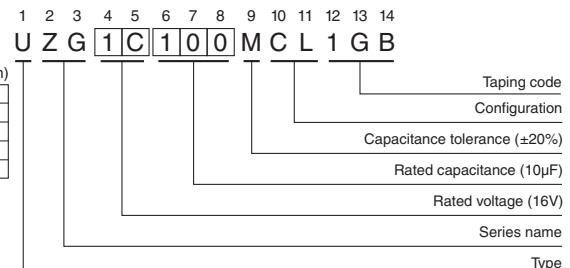
- Chip type with 3.95mmLMAX height. Operating over wide temperature range of -40 to $+105^{\circ}\text{C}$.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



■ Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to $+105^{\circ}\text{C}$								
Rated Voltage Range	6.3 to 50V								
Rated Capacitance Range	1 to 100 μF								
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C , leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.								
Tangent of loss angle (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 Z- 25°C / Z+ 20°C	6	5	3	3	3	3		
	ZT / Z ₂₀ (MAX.) Z- 40°C / Z+ 20°C	10	10	6	6	4	4		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C .				Capacitance change	Within $\pm 30\%$ of the initial capacitance value			
					tan δ	300% or less than the initial specified value			
					Leakage current	Less than or equal to the initial specified value			
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C , they shall meet the specified values for the endurance characteristics listed above.								
Resistance to soldering heat	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 removed from the plate and restored to 20°C .								
					Capacitance change	Within $\pm 10\%$ of the initial capacitance value			
					tan δ	Less than or equal to the initial specified value			
					Leakage current	Less than or equal to the initial specified value			
Marking	Black print on the case top.								

■ Chip Type

Type numbering system (Example : 16V 10 μF)

● 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

UZG

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ DXL(mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 2 minutes)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
6.3 (0J)	22	4×3.9	0.38	3	19	UZG0J220MCL1GB
	33	5×3.9	0.38	3	26	UZG0J330MCL1GB
	47	5×3.9	0.38	3	32	UZG0J470MCL1GB
	100	6.3×3.9	0.38	6.3	52	UZG0J101MCL1GB
10 (1A)	22	5×3.9	0.32	3	24	UZG1A220MCL1GB
	33	5×3.9	0.32	3.3	30	UZG1A330MCL1GB
	47	6.3×3.9	0.32	4.7	40	UZG1A470MCL1GB
16 (1C)	10	4×3.9	0.20	3	16	UZG1C100MCL1GB
	22	5×3.9	0.20	3.52	26	UZG1C220MCL1GB
	33	6.3×3.9	0.20	5.28	35	UZG1C330MCL1GB
	47	6.3×3.9	0.20	7.52	44	UZG1C470MCL1GB
25 (1E)	4.7	4×3.9	0.16	3	11	UZG1E4R7MCL1GB
	10	5×3.9	0.16	3	20	UZG1E100MCL1GB
	22	6.3×3.9	0.16	5.5	33	UZG1E220MCL1GB
	33	6.3×3.9	0.16	8.25	42	UZG1E330MCL1GB
35 (1V)	4.7	4×3.9	0.14	3	13	UZG1V4R7MCL1GB
	10	5×3.9	0.14	3.5	22	UZG1V100MCL1GB
	22	6.3×3.9	0.14	7.7	36	UZG1V220MCL1GB
50 (1H)	1	4×3.9	0.14	3	5.4	UZG1H010MCL1GB
	2.2	4×3.9	0.14	3	9.6	UZG1H2R2MCL1GB
	3.3	4×3.9	0.14	3	12	UZG1H3R3MCL1GB
	4.7	5×3.9	0.14	3	16	UZG1H4R7MCL1GB
	10	6.3×3.9	0.14	5	26	UZG1H100MCL1GB

• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Mouser Electronics

Authorized Distributor

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