**UZG** 

3.95mmL MAX. Chip Type, Wide Temperature Range







- 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 fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

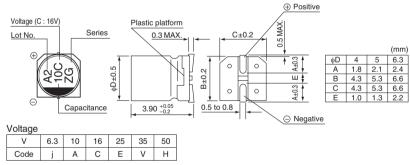




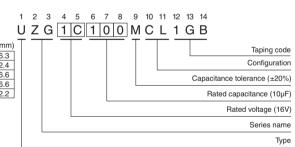
## ■Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	6.3 to 50V	3.3 to 50V									
Rated Capacitance Range	1 to 100μF	to 100μF									
Capacitance Tolerance	±20% at 120Hz	±20% at 120Hz, 20°C									
Leakage Current	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.						, whichever is greater.				
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)		6.3	10	16	2	5	35	50	120Hz 20°C	
	tan δ (MAX.)		0.38	0.32	0.20	0.	16	0.14	0.14		
	Rated voltage (V)		6.3	10	16	2	5	35	50	120Hz	
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	6	5	3	3	3	3	3		
Temperature		Z-40°C / Z+20°C	10	10	6	6	3	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.						300% or less than 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	maintained at 2	50°C. The capac sted at right whe	hot plate for 30 seconds, which is pacitors shall meet the characteristic nen they are removed from the plate and			tan δ Le		Less tha	Within ±10% of the initial capacitance value less than or equal to the initial specified value less than or equal to the initial specified value		
Marking	Black print on the	ne case top.									

## ■Chip Type



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



#### • 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 (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	22	4×3.9	0.38	3	19	UZG0J220MCL1GB
6.3	33 5×3.9		0.38	3	26	UZG0J330MCL1GB
(OJ)	47	5×3.9	0.38	3	32	UZG0J470MCL1GB
	100	6.3×3.9	0.38	6.3	52	UZG0J101MCL1GB
	22	5×3.9	0.32	3	24	UZG1A220MCL1GB
10 (1A)	33	5×3.9	0.32	3.3	30	UZG1A330MCL1GB
(11.7)	47	6.3×3.9	0.32	4.7	40	UZG1A470MCL1GB
	10	4×3.9	0.20	3	16	UZG1C100MCL1GB
16	22	5×3.9	0.20	3.52	26	UZG1C220MCL1GB
(1C)	33	6.3×3.9	0.20	5.28	35	UZG1C330MCL1GB
	47	6.3×3.9	0.20	7.52	44	UZG1C470MCL1GB
	4.7	4×3.9	0.16	3	11	UZG1E4R7MCL1GB
25	10	5×3.9	0.16	3	20	UZG1E100MCL1GB
(1E)	22	6.3×3.9	0.16	5.5	33	UZG1E220MCL1GB
	33	6.3×3.9	0.16	8.25	42	UZG1E330MCL1GB
	4.7	4×3.9	0.14	3	13	UZG1V4R7MCL1GB
35 (1V)	10	5×3.9	0.14	3.5	22	UZG1V100MCL1GB
(IV)	22	6.3×3.9	0.14	7.7	36	UZG1V220MCL1GB
	1	4×3.9	0.14	3	5.4	UZG1H010MCL1GB
	2.2	4×3.9	0.14	3	9.6	UZG1H2R2MCL1GB
50 (1H)	3.3	4×3.9	0.14	3	12	UZG1H3R3MCL1GB
(111)	4.7	5×3.9	0.14	3	16	UZG1H4R7MCL1GB
	10	6.3×3.9	0.14	5	26	UZG1H100MCL1GB

<sup>•</sup> Taping specifications are given in page 20.

<sup>•</sup> Recommended land size, soldering by reflow are given in page 16,17.

<sup>•</sup> Please refer to page 3 for the minimum order quantity.