nichicon

UZG

3.95mmL MAX. Chip Type,
Wide Temperature Range

For SMD | Smaller | Anti-Solvent Feature

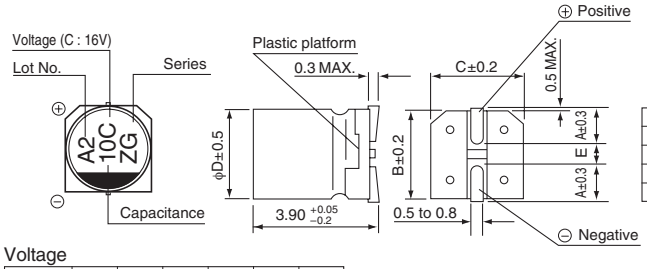
- Chip type with 3.95mmLMAX height. Operating over wide temperature range of −40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please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

UZT
Smaller
UZG

■Specifications

Item	Performance Characteristics							
Category Temperature Range	−40 to +105°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	1 to 100µF							
Capacitance Tolerance	±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 ZT / Z20 (MAX.) Z−25°C / Z+20°C	6	5	3	3	3	3	
	Impedance ratio ZT / Z20 (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 ±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 ±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



(mm)

φD	4	5	6.3
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2

Voltage

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

Type numbering system (Example : 16V 10µF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Z	G	1	C	1	0	0	M	C	L	1	G	B

Taping code
Configuration
Capacitance tolerance (±20%)
Rated capacitance (10µF)
Rated voltage (16V)
Series name
Type

■Dimensions

V / Cap. (µF)	Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
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

Rated ripple current (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, soldering by reflow are given in page 18,19.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UZE1V4R7MCL1GB UZG0J101MCL1GB UZG0J220MCL1GB UZG0J330MCL1GB UZG0J470MCL1GB UZG1A220MCL1GB UZG1A330MCL1GB UZG1A470MCL1GB UZG1C100MCL1GB UZG1C220MCL1GB UZG1C330MCL1GB UZG1C470MCL1GB UZG1E100MCL1GB UZG1E220MCL1GB UZG1E330MCL1GB UZG1E4R7MCL1GB UZG1H010MCL1GB UZG1H0R1MCL1GB UZG1H100MCL1GB UZG1H2R2MCL1GB UZG1H3R3MCL1GB UZG1H4R7MCL1GB UZG1HR22MCL1GB UZG1HR33MCL1GB UZG1HR47MCL1GB UZG1V100MCL1GB UZG1V220MCL1GB