nichicon

UZT

4.5mmL Chip Type, Wide Temperature Range

For SMD | Smaller | Anti-Solvent Feature

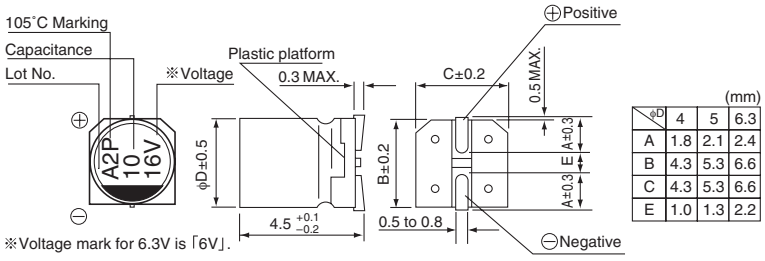
- Chip type with 4.5mm height, operating over wide temperature range of −40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.

UWT
Smaller
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 0.01CV or 3 (μA), whichever is greater.
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 tan δ (MAX.): 0.38 / 0.32 / 0.20 / 0.16 / 0.14 / 0.14
Stability at Low Temperature	Measurement frequency : 120Hz Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 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	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 ±25% of the initial capacitance value (16V or less) / Within ±20% of the initial capacitance value (25V or more) tan δ: 300% or less than 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

Type numbering system (Example : 16V 10μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Z	T	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

Cap. (μF) \ V	6.3		10		16		25		35		50	
Code	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

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUX(p.158), UUJ(p.164) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

● 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

Mouser Electronics

Authorized Distributor

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

Nichicon:

UZS1V4R7MCL1GB UZT1H100MCL1GB UZT1V100MCL1GB UZT1V220MCL1GB UZT0J101MCL1GB UZT0J220MCL1GB UZT0J330MCL1GB UZT0J470MCL1GB UZT1A220MCL1GB UZT1A330MCL1GB UZT1A470MCL1GB UZT1C100MCL1GB UZT1C220MCL1GB UZT1C330MCL1GB UZT1C470MCL1GB UZT1E100MCL1GB UZT1E220MCL1GB UZT1E330MCL1GB UZT1E4R7MCL1GB UZT1H010MCL1GB UZT1H0R1MCL1GB UZT1H2R2MCL1GB UZT1H3R3MCL1GB UZT1H4R7MCL1GB UZT1HR22MCL1GB UZT1HR33MCL1GB UZT1HR47MCL1GB UZT1V4R7MCL1GB