

4.5mmL Chip Type, Wide Temperature Range



- UWT
↓
Smaller
UZT
↓
Smaller
UZG



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	Z-25°C / Z+20°C	6	5	3	3	3	3
	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 ±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.							

105°C Marking

Capacitance

Lot No.

⊕ Positive

⊖ Negative

Plastic platform

0.3 MAX.

※ Voltage

$\phi D \pm 0.5$

4.5 $\begin{smallmatrix} +0.1 \\ -0.2 \end{smallmatrix}$

$C \pm 0.2$

0.5 MAX.

$B \pm 0.2$

$A \pm 0.3$

$E \pm 0.3$

0.5 to 0.8

※ Voltage mark for 6.3V is 「6V」.

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 ($\pm 20\%$)

Rated capacitance (10 μ F)

Rated voltage (16V)

Series name

Type

V		6.3		10		16		25		35		50	
Cap. (μF)	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 ø D (mm)	Rated ripple

Rated ripple current (mA_{rms}) at 105°C 120Hz

- | 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 select UUX(p.170), UJJ(p.176) series if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.