Chip Type, Wide Temperature Range







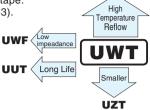
UWZ

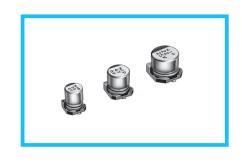
• Chip type operating over wide temperature range of to −55 to +105°C.

• 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.



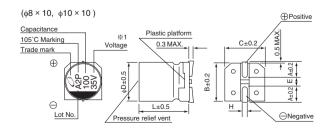


■ Specifications

Item	Performance Characteristics												
Category Temperature Range	-55 to +105°C												
Rated Voltage Range	4 to 50V												
Rated Capacitance Range	1 to 1500μF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' ap	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater.											
							Measu	eme	ent freque	ncy : 120	Hz at 20°C	2	
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3		10	16	2	5	35	5	50		
	tan δ (MAX.)	0.40	0.30).24	0.20	0.	6	0.1	4	0.14		
	Measurement frequency : 120Hz												
O. 1.77	Rated voltage (V)			4	6.3	10	0 16		25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C /	Z+20°C	7	4	3	2		2	2	2		
	ZT / Z20 (MAX.)	Z-40°C /	Z+20°C	15	8	8	4		4	3	3		
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 Within ±25% of the initial capacitance value for capacitors of 16V or less than the initial specified value Capacitance Within ±25% of the initial capacitance value for capacitors of 25V or more tan δ 200% 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.												
Desistante de calderina	The capacitors are		neet the		Capacitance change		Within ±10% of the initial capacitance value						
Resistance to soldering heat	is maintained at 25 characteristic requi				tan δ			Less than or equal to the initial specified value					
noat	removed from the				ney are	Leakage current Less than or equal to the initial specified va				ified value			
Marking	Black print on the o	ase top.											

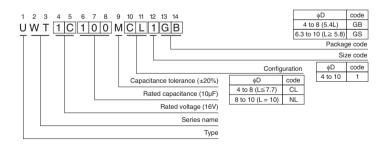
■Chip Type

($\phi4$ to $\phi8 \times 5.4$) ⊕Positive Capacitance Plastic platform **%**1 Voltage C±0.2 0.3 MAX. 105°C Marking 0 Θ н. Lot No. ⊖Negative **%**2 $\ensuremath{\%2}$ Apply to $\phi6.3 \times 5.8$, $\phi6.3 \times 7.7$



※1. Voltage mark for 6.3V is 「6V」.

Type numbering system (Example: 16V 10µF)



_								(mm)
φD×L	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 5.8	6.3 × 7.7	8 × 5.4	8 × 10	10 × 10
Α	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
В	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
С	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
Е	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	5.8	7.7	5.4	10	10
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1					



■ Dimensions

	V	4		6.3		10		16		25		35		50	
Cap. (µF)	Code	0G		0J		1A		1C		1E		1V		1H	
1	010										i i		1	4 × 5.4	6.3
2.2	2R2										!		!	4 × 5.4	11
3.3	3R3		i								i		i	4 × 5.4	14
4.7	4R7				i					4 × 5.4	13	4 × 5.4	15	5 × 5.4	19
10	100							4 × 5.4	18	5 × 5.4	23	5 × 5.4	25	6.3×5.4	30
22	220	4 × 5.4	22	4 × 5.4	22	5 × 5.4	27	5 × 5.4	30	6.3 × 5.4	38	6.3×5.4	42	•8 × 5.4	51 (45)
33	330	5 × 5.4	30	5 × 5.4	30	5 × 5.4	35	6.3 × 5.4	40	6.3 × 5.4	48	• 8 × 5.4	59 (52)	6.3 × 7.7	60
47	470	5 × 5.4	36	5 × 5.4	36	6.3×5.4	46	6.3 × 5.4	50	●8×5.4	66 (59)	6.3×5.8	63	6.3×7.7	63
100	101	6.3×5.4	60	6.3×5.4	60	6.3×5.4	60	6.3 × 5.4	60	6.3 × 7.7	91	6.3×7.7	84	8 × 10	140
150	151	6.3×5.8	86	6.3×5.8	86	6.3×5.8	86	6.3×7.7	95	8 × 10	140	8 × 10	155	10 × 10	180
220	221	• 8 × 5.4	102 (91)	• 8 × 5.4	102 (91)	6.3×7.7	105	6.3×7.7	105	8 × 10	155	8 × 10	190	10 × 10	220
330	331	6.3×7.7	105	6.3×7.7	105	8 × 10	195	8 × 10	195	8 × 10	190	10 × 10	300		i
470	471	8 × 10	210	8 × 10	210	8 × 10	210	8×10	230	10 × 10	300		[[! !
680	681	8 × 10	210	8 × 10	210	10 × 10	310	10×10	310		! !		!		!
1000	102	8 × 10	230	8 × 10	230	10 × 10	310				i i			Case size	Rated
1500	152	10 × 10	310	10 × 10	310						 		 	$\phi D \times L (mm)$	ripple

Size $\phi 6.3 \times 5.8$ is available for capacitors marked. " • " In such a case, [6] will be put at 12th digit of type numbering system.

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

Mouser Electronics

Authorized Distributor

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

Nichicon:

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UWT1HR47MCL1GB UWT1HR47MCL2GB UWT1HR47MCR1GB UWT1V100MCL1GB UWT1V100MCR1GB
UWT1V101MCL1GS UWT1V101MCR1GS UWT1V220MCL1GB UWT1V220MCR1GB UWT1V221MNL1GS
UWT1V221MNR1GS UWT1V2R2MCL2GB UWT1V2R2MCR2GB UWT1V330MCL1GB UWT1V330MCR1GB
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UWT1H221MNR1GS UWT1H2R2MCL1GB UWT1H2R2MCL2GB UWT1H2R2MCR1GB UWT1H2R2MCR2GB
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UWT0G220MCL1GB UWT0G221MCL1GB UWT0G330MCL1GB UWT0G470MCL1GB UWT0J101MCL1GB
UWT0J101MCR1GB UWT0J102MNL1GS UWT0J102MNR1GS UWT0J152MNL1GS UWT0J152MNR1GS
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