UWT

Chip Type, Wide Temperature Range







UWZ

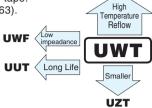
 \bullet Chip type operating over wide temperature range of to -55 to +105 °C.

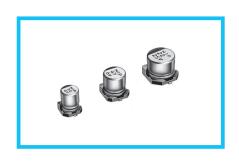
• Designed for surface mounting on high density PC board.

• 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.



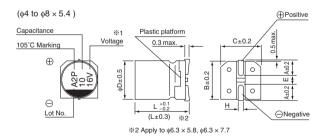


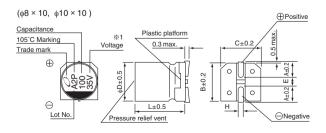
■ Specifications

Item	Performance Characteristics										
Category Temperature Range	-55 to +105°C										
Rated Voltage Range	4 to 50V	4 to 50V									
Rated Capacitance Range	1 to 1500μF	l to 1500μF									
Capacitance Tolerance	±20% at 120Hz, 2	±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.									
	Measurement frequency: 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	ated voltage (V) 4 6.3			10	16	25	3	5	50	
	tan δ (max.)	0.40	0.30	().24	0.20	0.16	0.16 0.1		0.14	
	Measurement frequency : 120Hz										
O. 133	Rated voltage (V)		4	6.3	10	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	5 8		4	4	3	3]	
Endurance	The specifications met when the capa 20°C after the rate	r	Capacitance change Within ±25% of the initial capacitance value for capacitors of 16V or less. Within ±20% of the initial capacitance value for capacitors of 25V or more. tan δ 200% or less than the initial specified value								
	1000 hours at 105°C. 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	The capacitors are kept on a hot plate for 30 se is maintained at 250°C. The capacitors shall me characteristic requirements listed at right when removed from the plate and restored to 20°C.				et the	nich			Within ±10% of the initial capacitance value Less than or equal to the initial specified value		
heat					they are		Leakage current		Less than or equal to the initial specified value		
Marking	Black print on the case top.										

* I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

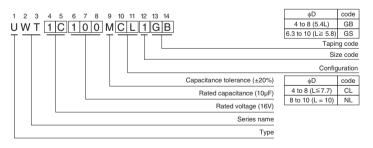
■Chip Type





※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					

• Frequency coefficient of rated ripple current

ı	rioquonoy ocomoioni or ratou rippio carroni									
	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more				
ſ	Coefficient	0.70	1.00	1.17	1.36	1.50				



■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	4×5.4	0.40	3	22	UWT0G220MCL1GB
	33	5×5.4	0.40	3	30	UWT0G330MCL1GB
	47	5×5.4	0.40	3	36	UWT0G470MCL1GB
	100	6.3×5.4	0.40	4	60	UWT0G101MCL1GB
	150	6.3×5.8	0.40	6	86	UWT0G151MCL1GS
4	220	8×5.4	0.40	8.8	102	UWT0G221MCL1GB
(0G)	220	6.3×5.8	0.40	8.8	91	UWT0G221MCL6GS
	330	6.3×7.7	0.40	13.2	105	UWT0G331MCL1GS
	470	8×10	0.40	18.8	210	UWT0G471MNL1GS
	680	8×10	0.40	27.2	210	UWT0G681MNL1GS
	1000	8×10	0.40	40	230	UWT0G102MNL1GS
	1500	10×10	0.40	60	310	UWT0G152MNL1GS
	22	4×5.4	0.30	3	22	UWT0J220MCL1GB
-	33	5×5.4	0.30	3	30	UWT0J330MCL1GB
	47	5×5.4	0.30	3	36	UWT0J470MCL1GB
	100	6.3×5.4	0.30	6.3	60	UWT0J101MCL1GB
	150	6.3×5.8	0.30	9.45	86	UWT0J151MCL1GS
6.3	220	8×5.4	0.30	13.86	102	UWT0J221MCL1GB
(0J)	220	6.3×5.8	0.30	13.86	91	UWT0J221MCL6GS
	330	6.3×7.7	0.30	20.79	105	UWT0J331MCL1GS
	470	8×10	0.30	29.61	210	UWT0J471MNL1GS
	680	8×10	0.30	42.84	210	UWT0J681MNL1GS
	1000	8×10	0.30	63	230	UWT0J102MNL1GS
	1500	10×10	0.30	94.5	310	UWT0J152MNL1GS
	22	5×5.4	0.24	3	27	UWT1A220MCL1GB
	33	5×5.4	0.24	3.3	35	UWT1A330MCL1GB
	47	6.3×5.4	0.24	4.7	46	UWT1A470MCL1GB
	100	6.3×5.4	0.24	10	60	UWT1A101MCL1GB
10	150	6.3×5.8	0.24	15	86	UWT1A151MCL1GS
(1A)	220	6.3×7.7	0.24	22	105	UWT1A221MCL1GS
	330	8×10	0.24	33	195	UWT1A331MNL1GS
-	470	8×10	0.24	47	210	UWT1A471MNL1GS
-	680	10×10	0.24	68	310	UWT1A681MNL1GS
-	1000	10×10	0.24	100	310	UWT1A102MNL1GS
	10	4×5.4	0.20	3	18	UWT1C100MCL1GB
	22	5×5.4	0.20	3.52	30	UWT1C220MCL1GB
	33	6.3×5.4	0.20	5.28	40	UWT1C330MCL1GB
	47	6.3×5.4	0.20	7.52	50	UWT1C470MCL1GB
16	100	6.3×5.4	0.20	16	60	UWT1C101MCL1GB
(1C)	150	6.3×7.7	0.20	24	95	UWT1C151MCL1GS
	220	6.3×7.7	0.20	35.2	105	UWT1C221MCL1GS
	330	8×10	0.20	52.8	195	UWT1C331MNL1GS
	470	8×10	0.20	75.2	230	UWT1C471MNL1GS
	680	10×10	0.20	108.8	310	UWT1C681MNL1GS



■ 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
	4.7	4×5.4	0.16	3	13	UWT1E4R7MCL1GB
	10	5×5.4	0.16	3	23	UWT1E100MCL1GB
	22	6.3×5.4	0.16	5.5	38	UWT1E220MCL1GB
	33	6.3×5.4	0.16	8.25	48	UWT1E330MCL1GB
	47	8×5.4	0.16	11.75	66	UWT1E470MCL1GB
25 (1E)	47	6.3×5.8	0.16	11.75	59	UWT1E470MCL6GS
(12)	100	6.3×7.7	0.16	25	91	UWT1E101MCL1GS
	150	8×10	0.16	37.5	140	UWT1E151MNL1GS
	220	8×10	0.16	55	155	UWT1E221MNL1GS
	330	8×10	0.16	82.5	190	UWT1E331MNL1GS
	470	10×10	0.16	117.5	300	UWT1E471MNL1GS
	4.7	4×5.4	0.14	3	15	UWT1V4R7MCL1GB
	10	5×5.4	0.14	3.5	25	UWT1V100MCL1GB
	22	6.3×5.4	0.14	7.7	42	UWT1V220MCL1GB
	33	8×5.4	0.14	11.55	59	UWT1V330MCL1GB
35	33	6.3×5.8	0.14	11.55	52	UWT1V330MCL6GS
(1V)	47	6.3×5.8	0.14	16.45	63	UWT1V470MCL1GS
	100	6.3×7.7	0.14	35	84	UWT1V101MCL1GS
	150	8×10	0.14	52.5	155	UWT1V151MNL1GS
	220	8×10	0.14	77	190	UWT1V221MNL1GS
	330	10×10	0.14	115.5	300	UWT1V331MNL1GS
	1	4×5.4	0.14	3	6.2	UWT1H010MCL1GB
	2.2	4×5.4	0.14	3	11	UWT1H2R2MCL1GB
	3.3	4×5.4	0.14	3	14	UWT1H3R3MCL1GB
	4.7	5×5.4	0.14	3	19	UWT1H4R7MCL1GB
	10	6.3×5.4	0.14	5	30	UWT1H100MCL1GB
50	22	8×5.4	0.14	11	51	UWT1H220MCL1GB
(1H)	22	6.3×5.8	0.14	11	45	UWT1H220MCL6GS
	33	6.3×7.7	0.14	16.5	60	UWT1H330MCL1GS
	47	6.3×7.7	0.14	23.5	63	UWT1H470MCL1GS
	100	8×10	0.14	50	140	UWT1H101MNL1GS
	150	10×10	0.14	75	180	UWT1H151MNL1GS
	220	10×10	0.14	110	220	UWT1H221MNL1GS

[•] For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

• Please select UUX, UUJ series if high C/V products are required.