UWT

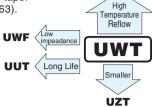
Chip Type, Wide Temperature Range





UWZ

- ullet 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.

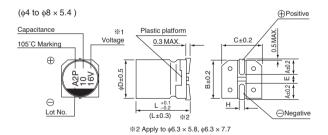


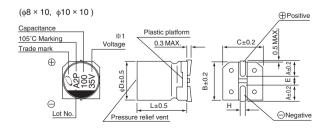


■ Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C											
Rated Voltage Range	4 to 50V											
Rated Capacitance Range	1 to 1500μF	1 to 1500μF										
Capacitance Tolerance	±20% at 120Hz, 2	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' ap	plication of	rated volta	age at 20	O°C, leak	age cui	rent is not m	ore than	0.01CV	or 3 (µA) ,	whichever is great	er.
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	e (V) 4 6.3			10	16	25	3	5	50]	
	tan δ (MAX.)	0.40	0.30	0	.24	0.20	0.16	0.	14	0.14		
	Measurement frequency : 120Hz											
Stability at Law Tamparatura	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				8	8	4	4	3	3]	
Endurance	The specifications met when the capa 20°C after the rate		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 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 $\pm 10\%$ of the initial capacitance than δ Less than or equal to the initial specific teakage current Less than or equal to the initial specific					to the initial specified	value					
Marking	Black print on the	case top.										

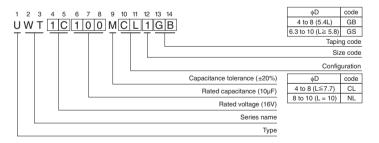
■Chip Type





%1. Voltage mark for 6.3V is $\lceil 6V \rfloor$.

Type numbering system (Example: 16V 10µF)



							(mm)
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
1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
5.4	5.4	5.4	5.8	7.7	5.4	10	10
0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1
	1.8 4.3 4.3 1.0 5.4	1.8 2.1 4.3 5.3 4.3 5.3 1.0 1.3 5.4 5.4	1.8 2.1 2.4 4.3 5.3 6.6 4.3 5.3 6.6 1.0 1.3 2.2 5.4 5.4 5.4	1.8 2.1 2.4 2.4 4.3 5.3 6.6 6.6 4.3 5.3 6.6 6.6 1.0 1.3 2.2 2.2 5.4 5.4 5.4 5.8	1.8 2.1 2.4 2.4 2.4 4.3 5.3 6.6 6.6 6.6 4.3 5.3 6.6 6.6 6.6 1.0 1.3 2.2 2.2 2.2 5.4 5.4 5.4 5.8 7.7	1.8 2.1 2.4 2.4 2.4 3.3 4.3 5.3 6.6 6.6 6.6 8.3 4.3 5.3 6.6 6.6 6.6 8.3 1.0 1.3 2.2 2.2 2.2 2.3 5.4 5.4 5.4 5.8 7.7 5.4	1.8 2.1 2.4 2.4 2.4 3.3 2.9 4.3 5.3 6.6 6.6 6.6 8.3 8.3 4.3 5.3 6.6 6.6 6.6 8.3 8.3 1.0 1.3 2.2 2.2 2.2 2.3 3.1

• Frequency coefficient of rated ripple current

rioqueries decinerate or rated rippie carrent										
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more					
Coefficient	0.70	1.00	1.17	1.36	1.50					

UWT

■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
(OJ)	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.

Mouser Electronics

Authorized Distributor

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Nichicon:

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UWT1HR47MCL1GB UWT1HR47MCL2GB UWT1HR47MCR1GB UWT1V100MCL1GB UWT1V100MCR1GB
UWT1V101MCL1GS UWT1V101MCR1GS UWT1V220MCL1GB UWT1V220MCR1GB UWT1V221MNL1GS
UWT1V221MNR1GS UWT1V2R2MCL2GB UWT1V2R2MCR2GB UWT1V330MCL1GB UWT1V330MCR1GB
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UWT1H4R7MCL1GB UWT1H4R7MCR1GB UWT1HR22MCL1GB UWT1HR22MCL2GB UWT1HR22MCR2GB
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UWT0J101MCR1GB UWT0J102MNL1GS UWT0J102MNR1GS UWT0J152MNL1GS UWT0J152MNR1GS
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