Chip Type, Wide Temperature Range







UWZ

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

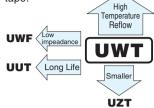
• Designed for surface mounting on high density PC board.

• Applicable to automatic mounting machine fed with carrier tape.

• Compliant to the RoHS directive (2011/65/EU).

• AEC-Q200 compliant. Please contact us for details.

Values marked with an * in the dimension table are scheduled to be discontinued and are not recommended for new designs.



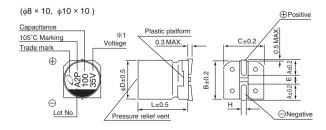


■ Specifications

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.											
								Measurement frequency : 120Hz at 20°C					
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3	_	10	16		25	3	-	50		
	tan δ (MAX.) 0.40 0.30		().24	0.20)	0.16	0.	14	0.14	j		
	Measurement frequency : 120Hz												
O1-1-77	Rated voltage (V)			4	6.3	3 1	0	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C /	Z-25°C / Z+20°C		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					tance	'	Within ±25% of the initial capacitance value for capacitors of \$40 mm unit, and 16V or less. Within ±20% of the initial capacitance value for capacitors of 25V or more. 200% or less than the initial specified value					
	1000 hours at 105°	Leakag	e currer	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, wh 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.					1					to the initial specified value		
Marking	Black print on the case top.												

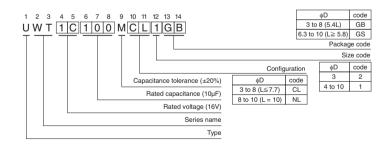
■Chip Type

(ϕ 3 to ϕ 8 \times 5.4) ⊕Positive Capacitance Plastic platform **%**1 Voltage C±0.2 0.3 MAX. 105°C Marking 0 Θ ⊝ _{%2} Lot No. н. ⊖Negative **%**3 $\ensuremath{\%3}$ Apply to $\phi6.3\times5.8,\,\phi6.3\times7.7$



^{%1.} Voltage mark for 6.3V is 「6V」. In case of marking for \$\phi\$ units, "V" for rated

Type numbering system (Example: 16V 10µF)



									(mm)
φD×L	* 3 × 5.4	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	1.5	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
В	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
С	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
E	0.8	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	5.4	5.8	7.7	5.4	10	10
Н	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	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

^{※2.} In case of marking for φ3 units. Lot No is expressed by a digit (month code).



■Dimensions

V		4		6.3		10		16		25		35		50	
Cap. (µF) Code		0G		OJ		1A		1C		1E		1V		1H	
1	010		 		! !		! 						1	4 × 5.4 (*3)	6.3(5.9)
2.2	2R2		 		!		 					*3 × 5.4	7.5	4 × 5.4 (*3)	11 (9)
3.3	3R3		 		i I		i I					*3 × 5.4	9	4 × 5.4	14
4.7	4R7		 		1		 			4 × 5.4 (*3)	13 (10)	4 × 5.4	15	5 × 5.4	19
10	100				I I		 	4 × 5.4 (*3)	18 (14)	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		
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							Case size	Rated
1500	152	10 × 10	310	10 × 10	310	·							 	$\phi D \times L (mm)$	ripple

 $(*3):_{\varphi 3}$ In such a case, 2 will be put at 12th digit of type numbering system.

Rated ripple current (mArms) at 105°C 120Hz

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.

• Frequency coefficient of rated ripple current

Frequency	50 Hz	50 Hz 120 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.158), UUJ(p.164) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

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