

Chip Type, Low Impedance High Temperature (260°C) Reflow







- Corresponding with 260°C peak reflow soldering Recomended reflow condition: 260°C peak 5 sec. 230°C over 60 sec. 2 times (φ10 x 10 : 1 time)
- Chip type, low impedance temperature range up 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.





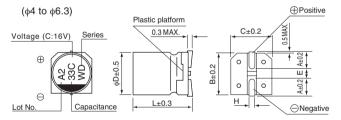


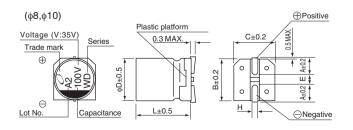


■ Specifications

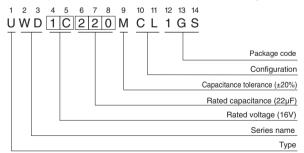
Item	Performance Characteristics									
Category Temperature Range	−55 to +105°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	1 to 1500µF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV 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.) 0.26 (0.28) 0.20 (0.24) 0.16 (0.20) 0.14 (0.16) 0.12 (0.14) 0.12 (0.14) () is φ8 over									
	Measurement frequency : 120Hz									
Stability at Low Temperature	Rated voltage (V) 6.3 10 16 25 35 50									
Clasmity at 2011 Temperature	Impedance ratio Z-25°C / Z+20°C 3 2 2 2 2 2 2 2 2 2									
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20° C after the rated voltage is applied for 5000 hours (2000 hours for ϕ D = 4, 5 and 6.3) at 105°C.									
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 val 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.									

■Chip Type





Type numbering system (Example: 16V 22µF)



						(mm)
ΦD×L	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10
Α	1.8	2.1	2.4	2.4	2.9	3.2
В	4.3	5.3	6.6	6.6	8.3	10.3
С	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
Н	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

Voltage

V	6.3	10	16	25	35	50
Code	i	Α	С	F	V	Н



■ Dimensions

Cara	V	6	6.3			10			16			25		;	35			50	
Cap. Code		0J		1A		1C		1E		1V		1H							
1	010					! !						 				 	4 × 5.8	5.00	30
2.2	2R2															 	4 × 5.8	5.00	30
3.3	3R3											<u> </u>					4 × 5.8	5.00	30
4.7	4R7					 								4 × 5.8	1.80	80	5 × 5.8	1.52	85
10	100										4 × 5.8	1.80	80	5×5.8	0.76	150	6.3 × 5.8	0.88	165
15	150							4×5.8	1.80	80	5 × 5.8	0.76	150	5 × 5.8	0.76	150	6.3 × 5.8	0.88	165
22	220				4 × 5.8	1.80	80	5×5.8	0.76	150	5 × 5.8	0.76	150	5 × 5.8	0.76	150	6.3 × 5.8	0.88	165
27	270	4 × 5.8	1.80	80	5×5.8	0.76	150	5×5.8	0.76	150	6.3 × 5.8	0.44	230	6.3×5.8	0.44	230	6.3 × 7.7	0.68	185
33	330	5×5.8	0.76	150	5×5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	185
47	470	5 × 5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	185
56	560	5 × 5.8	0.76	150	6.3×5.8	0.44	230	6.3 × 5.8	0.44	230	6.3 × 5.8	0.44	230	6.3×7.7	0.34	280	8×10	0.34	300
68	680	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3 × 5.8	0.44	230	6.3 × 5.8	0.44	230	6.3×7.7	0.34	280	8×10	0.34	300
100	101	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280	8×10	0.17	450	8×10	0.34	300
150	151	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280	8×10	0.17	450	8×10	0.17	450	10×10	0.18	670
220	221	6.3 × 5.8	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10	0.17	450	10×10	0.09	670	10×10	0.18	670
330	331	6.3×7.7	0.34	280	8 × 10	0.17	450	8 × 10	0.17	450	10×10	0.09	670	10×10	0.09	670			
470	471	8×10	0.17	450	8 × 10	0.17	450	8 × 10	0.17	450	10×10	0.09	670						
680	681	8×10	0.17	450	10 × 10	0.09	670	10 × 10	0.09	670									
1000	102	10×10	0.09	670	10 × 10	0.09	670									i I	Case size	i	Rated
1500	152	10×10	0.09	670													φD×L (mm)	Impedance	ripple

 $\label{eq:max_max} \text{Max. Impedance } (\Omega) \text{ at } 20^{\circ}\text{C 100kHz},$ $\text{Rated ripple current (mArms) at } 105^{\circ}\text{C 100kHz}$

• Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1 00

[•] Taping specifications are given in page 23.

[•] Recommended land size, soldering by reflow are given in page 18, 19.

[•] Please refer to page 3 for the minimum order quantity.

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UWD0J270MCL1GS UWD0J330MCL1GS UWD0J331MCL1GS UWD0J470MCL1GS UWD0J471MCL1GS
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UWD1V220MCQ1GS UWD1V221MCQ1GS
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