

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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UWG

Chip Type, Low Impedance



- 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).

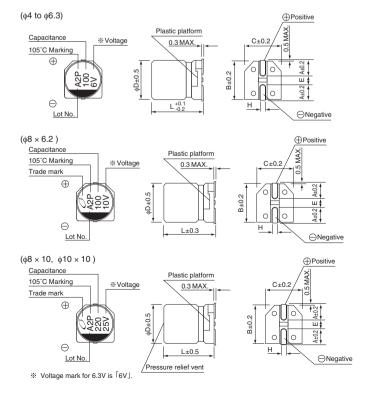




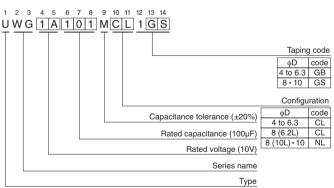
■Specifications

Item	Performance Characteristics										
Category Temperature Range	−55 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	1 to 1500μF	I to 1500μF									
Capacitance Tolerance	±20% at 120Hz, 20)°C									
Leakage Current	After 2 minutes' a	pplication o	of rated vo	oltage,	leakage	current is	not m	ore than	n 0.01C\	/ or 3 (μA), whichever is greater.	
					N	leasuremen	freque	ncy : 120	Hz at 20°	С	
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10		16	25	3	5	50		
	tan δ (MAX.) 0.26 0.19		(0.16	0.14	0.	12	0.12			
	Measurement frequency: 120Hz										
O. 1.17	Rated voltage (V) 6.3			6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C /	Z+20°C	2	2	2	2	2	2		
	ZT / Z20 (MAX.)	Z-55°C /	Z+20°C	4	4	3	3	3	3		
	The specifications		Capacita	e Within ±20% of the initial capacitance value							
Endurance	when the capacitor		tan δ		200% or less than the initial specified value						
	after the rated voltage is applied for 1000 hours at 105°C. Leakage current Less than or equal to the initial specific Less than or equal to the initial								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.									
	The capacitors are kept on a hot plate for 30 seconds, which is						Capacitance change			Within ±10% of the initial capacitance value	
Resistance to soldering		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.						tan δ		Less than or equal to the initial specified value	
heat								Leakage current		Less than or equal to the initial specified value	
Marking	Black print on the c	ase top.									

■Chip Type



Type numbering system (Example: 10V 100µF)



						(mm)
φD×L	4 × 5.4	5 × 5.4	6.3 × 5.4	8 × 6.2	8 × 10	10 × 10
A	1.8	2.1	2.4	3.3	2.9	3.2
В	4.3	5.3	6.6	8.3	8.3	10.3
С	4.3	5.3	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	6.2	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

UWG

■ Dimensions

Cap.	V 6.3			10		16				
(μF)	Code	0J			1A			1C		
10	100					! ! !	I I	4 × 5.4	3.0	60
22	220	4 × 5.4	3.0	60		 	 	5 × 5.4	1.8	95
33	330	i			5 × 5.4	1.8	95			
47	470	5×5.4	1.8	95		 	 	6.3 × 5.4	1.0	140
68	680	6.3 × 5.4	1.0	140		 	I I	8 × 6.2	0.4	230
100	101	6.3 × 5.4	1.0	140	8 × 6.2	0.4	230	8 × 6.2	0.4	230
150	151				8 × 6.2	0.4	230			
220	221	8×6.2	0.4	230	8×10	0.3	450	10 × 10	0.15	670
330	331	8×10	0.3	450		i I	i I	10 × 10	0.15	670
470	471				10×10	0.15	670	10 × 10	0.15	670
680	681					I I	1	10 × 10	0.15	670
1000	102	10×10	0.15	670	10×10	0.15	670			
1500	152	10×10	0.15	670			1			

Can	V 25			35		50				
(μF)	Code	1E			1V			1H		
1	010		1		4 × 5.4	3.0	60	4 × 5.4	5.0	30
2.2	2R2				4 × 5.4	3.0	60	4 × 5.4	5.0	30
3.3	3R3				4 × 5.4	3.0	60	4 × 5.4	5.0	30
4.7	4R7				4 × 5.4	3.0	60	5 × 5.4	3.0	50
6.8	6R8	4×5.4	3.0	60	5 × 5.4	1.8	95			
10	100		i I		5 × 5.4	1.8	95	6.3 × 5.4	2.0	70
22	220	6.3 × 5.4	1.0	140	6.3 × 5.4	1.0	140	8 × 6.2	0.7	120
33	330	6.3 × 5.4	1.0	140	8 × 6.2	0.4	230	8 × 10	0.6	300
47	470	8 × 6.2	0.4	230	8 × 6.2	0.4	230	10 × 10	0.3	500
68	680	8×10	0.3	450		 	 			
100	101	8×10	0.3	450	10×10	0.15	670	10 × 10	0.3	500
220	221	10×10	0.15	670	10×10	0.15	670	10 × 10	0.3	500
330	331	10×10	0.15	670	10×10	0.15	670	Case size		Rated
470	471	10×10	0.15	670				$\phi D \times L (mm)$	Impedance	ripple

Max. Impedance $\,(\Omega)$ at 20°C 100kHz Rated ripple current (mArms) at 105°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 select UUJ(p.158) if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.