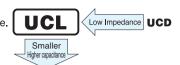
Chip Type, Low Impedance



UCM

- Chip type, low impedance, temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.



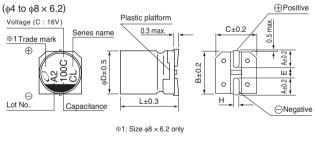


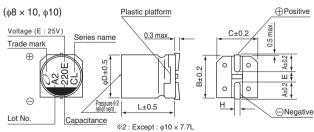
Specifications

Item	Performance Characteristics										
Category Temperature Range	- 55 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	10 to 2200μF										
Capacitance Tolerance	± 20% at 120Hz, 20°C										
Leakage Current **	After 2 minutes' a	pplication of rated vol	tages at 20°C, lea	kage curre	ent is not more t	than 0.01	CV or 3 (µ/	A), whichever is	greater.		
							Measure	ement frequenc	y : 120Hz at 20°C		
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16		25	35	50		
g	tan δ (max.)		0.26	0.19	0.16		0.14	0.12	0.10		
	Measurement frequency : 120Hz										
	Rated voltage (V)	6.3	10	16		25	35	50		
Stability at Low Temperature	Impedance ratio ZT / Z20 (max.)	Z(-25°C) / Z(+20°C)	2	2	2		2	2	2		
		Z(-40°C) / Z(+20°C)	3	3	3		3	3	3		
		Z(-55°C) / Z(+20°C)	4	4	4		3	3	3		
	The specifications listed at right shall be met when the Capacitance Change Within ± 30% of the initial capacitance value										
Endurance	capacitors are restored to 20°C after the rated voltage is			tan δ	tan δ 200% or		less than the initial specified value				
	applied for 2000 h	Leaka	ge current	e 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		Capacitance Change		Within ± 10% of the initial capacitance value			ralue			
heat		PC. The capacitors should be at right when they a			tan δ		Less than or equal to the initial specified value			d value	
	and restored to 20				Leakage curre	ent	Less tha	an or equal to the	he initial specified	d value	
Marking	Black print on the case top.										

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

■Chip Type

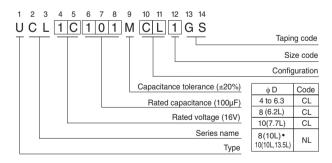




Voltage						
٧	6.3	10	16	25	35	50
Code	j	Α	С	Е	V	Н

Dimension table in next page.

Type numbering system (Example : 16V 100μF)



4 × 5.8	5 × 5.8							
	0 / 0.0	6.3 × 5.8	6.3 × 7.7	8 × 6.2	8 × 10	10 × 7.7	10 × 10	10 × 13.5
1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	3.2
4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
1.0	1.3	2.2	2.2	2.3	3.1	4.5	4.5	4.5
5.8	5.8	5.8	7.7	6.2	10	7.7	10	13.5
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	0.8 to 1.1	0.8 to 1.1
	4.3 4.3 1.0 5.8	4.3 5.3 4.3 5.3 1.0 1.3 5.8 5.8	4.3 5.3 6.6 4.3 5.3 6.6 1.0 1.3 2.2 5.8 5.8 5.8	4.3 5.3 6.6 6.6 4.3 5.3 6.6 6.6 1.0 1.3 2.2 2.2 5.8 5.8 5.8 7.7	4.3 5.3 6.6 6.6 8.3 4.3 5.3 6.6 6.6 8.3 1.0 1.3 2.2 2.2 2.3 5.8 5.8 5.8 7.7 6.2	4.3 5.3 6.6 6.6 8.3 8.3 4.3 5.3 6.6 6.6 8.3 8.3 1.0 1.3 2.2 2.2 2.3 3.1 5.8 5.8 7.7 6.2 10	4.3 5.3 6.6 6.6 8.3 8.3 10.3 4.3 5.3 6.6 6.6 8.3 8.3 10.3 1.0 1.3 2.2 2.2 2.3 3.1 4.5 5.8 5.8 5.8 7.7 6.2 10 7.7	4.3 5.3 6.6 6.6 8.3 8.3 10.3 10.3 4.3 5.3 6.6 6.6 8.3 8.3 10.3 10.3 1.0 1.3 2.2 2.2 2.3 3.1 4.5 4.5

• Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

UCL

■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	Impedance(Ω) max. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
	22	4×5.8	0.26	3	0.85	160	UCL0J220MCL1GS
,	47	4×5.8	0.26	3	0.85	160	UCL0J470MCL6GS
	47	5×5.8	0.26	3	0.36	240	UCL0J470MCL1GS
	100	5×5.8	0.26	6.3	0.36	240	UCL0J101MCL6GS
	100	6.3×5.8	0.26	6.3	0.26	300	UCL0J101MCL1GS
	220	6.3×5.8	0.26	13.86	0.26	300	UCL0J221MCL1GS
6.3	330	6.3×7.7	0.26	20.79	0.16	600	UCL0J331MCL1GS
(0J)	330	8×6.2	0.26	20.79	0.18	500	UCL0J331MCL6GS
	470	8×10	0.26	29.61	0.08	850	UCL0J471MNL1GS
	470	10×7.7	0.26	29.61	0.10	850	UCL0J471MCL6GS
	1000	8×10	0.26	63	0.08	850	UCL0J102MNL1GS
	1500	10×10	0.26	94.5	0.06	1190	UCL0J152MNL1GS
	1800	10×10	0.26	113.4	0.08	850	UCL0J182MNL1GS
	2200	10×13.5	0.26	138.6	0.06	1190	UCL0J222MNL1GS
	22	4×5.8	0.19	3	0.85	160	UCL1A220MCL1GS
	33	4×5.8	0.19	3.3	0.85	160	UCL1A330MCL6GS
	33	5×5.8	0.19	3.3	0.36	240	UCL1A330MCL1GS
	47	6.3×5.8	0.19	4.7	0.26	300	UCL1A470MCL1GS
	100	6.3×5.8	0.19	10	0.26	300	UCL1A101MCL1GS
	150	6.3×5.8	0.19	15	0.26	300	UCL1A151MCL1GS
	220	6.3×7.7	0.19	22	0.16	600	UCL1A221MCL1GS
10	220	8×6.2	0.19	22	0.18	500	UCL1A221MCL6GS
(1A)	330	8×10	0.19	33	0.08	850	UCL1A331MNL1GS
	330	10×7.7	0.19	33	0.10	850	UCL1A331MCL6GS
	470	8×10	0.19	47	0.08	850	UCL1A471MNL1GS
	470	10×7.7	0.19	47	0.10	850	UCL1A471MCL6GS
	680	8×10	0.19	68	0.08	850	UCL1A681MNL1GS
	1000	10×10	0.19	100	0.06	1190	UCL1A102MNL1GS
	1200	10×10	0.19	120	0.08	850	UCL1A122MNL1GS
	1500	10×13.5	0.19	150	0.06	1190	UCL1A152MNL1GS
	10	4×5.8	0.16	3	0.85	160	UCL1C100MCL1GS
	22	4×5.8	0.16	3.52	0.85	160	UCL1C220MCL6GS
	22	5×5.8	0.16	3.52	0.36	240	UCL1C220MCL1GS
	47	5×5.8	0.16	7.52	0.36	240	UCL1C470MCL6GS
	47	6.3×5.8	0.16	7.52	0.26	300	UCL1C470MCL1GS
	68	6.3×5.8	0.16	10.88	0.26	300	UCL1C680MCL1GS
	100	6.3×5.8	0.16	16	0.26	300	UCL1C101MCL1GS
	100	6.3×7.7	0.16	16	0.16	600	UCL1C101MCL6GS
16	150	6.3×7.7	0.16	24	0.16	600	UCL1C151MCL1GS
(1C)	220	6.3×7.7	0.16	35.2	0.16	600	UCL1C221MCL1GS
	220	8×6.2	0.16	35.2	0.18	500	UCL1C221MCL6GS
	330	8×10	0.16	52.8	0.08	850	UCL1C331MNL1GS
	330	10×7.7	0.16	52.8	0.10	850	UCL1C331MCL6GS
	470	8×10	0.16	75.2	0.08	850	UCL1C471MNL1GS
-	470	10×7.7	0.16	75.2	0.10	850	UCL1C471MCL6GS
	680	10×10	0.16	108.8	0.06	1190	UCL1C681MNL1GS
	820	10×10	0.16	131.2	0.08	850	UCL1C821MNL1GS
-	1000	10×13.5	0.16	160	0.06	1190	UCL1C102MNL1GS

UCL

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Impedance(Ω) max. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
	10	4×5.8	0.14	3	0.85	160	UCL1E100MCL1GS
	22	5×5.8	0.14	5.5	0.36	240	UCL1E220MCL1GS
	33	5×5.8	0.14	8.25	0.36	240	UCL1E330MCL6GS
	33	6.3×5.8	0.14	8.25	0.26	300	UCL1E330MCL1GS
	47	6.3×5.8	0.14	11.75	0.26	300	UCL1E470MCL1GS
	68	6.3×5.8	0.14	17	0.26	300	UCL1E680MCL1GS
	100	6.3×7.7	0.14	25	0.16	600	UCL1E101MCL1GS
25	100	8×6.2	0.14	25	0.18	500	UCL1E101MCL6GS
(1E)	150	8×10	0.14	37.5	0.08	850	UCL1E151MNL1GS
	150	10×7.7	0.14	37.5	0.10	850	UCL1E151MCL6GS
	220	8×10	0.14	55	0.08	850	UCL1E221MNL1GS
	220	10×7.7	0.14	55	0.10	850	UCL1E221MCL6GS
	330	8×10	0.14	82.5	0.08	850	UCL1E331MNL1GS
	470	10×10	0.14	117.5	0.06	1190	UCL1E471MNL1GS
	560	10×10	0.14	140	0.08	850	UCL1E561MNL1GS
	680	10×13.5	0.14	170	0.06	1190	UCL1E681MNL1GS
	10	4×5.8	0.12	3.5	0.85	160	UCL1V100MCL6GS
	10	5×5.8	0.12	3.5	0.36	240	UCL1V100MCL1GS
	22	5×5.8	0.12	7.7	0.36	240	UCL1V220MCL1GS
	33	6.3×5.8	0.12	11.55	0.26	300	UCL1V330MCL1GS
	47	6.3×5.8	0.12	16.45	0.26	300	UCL1V470MCL1GS
	68	6.3×7.7	0.12	23.8	0.16	600	UCL1V680MCL1GS
	100	6.3×7.7	0.12	35	0.16	600	UCL1V101MCL6GS
35 (1V)	100	8×10	0.12	35	0.08	850	UCL1V101MNL1GS
(10)	150	8×10	0.12	52.5	0.08	850	UCL1V151MNL1GS
	150	10×7.7	0.12	52.5	0.10	850	UCL1V151MCL6GS
	220	8×10	0.12	77	0.08	850	UCL1V221MNL1GS
	220	10×7.7	0.12	77	0.10	850	UCL1V221MCL6GS
	330	10×10	0.12	115.5	0.06	1190	UCL1V331MNL1GS
	390	10×10	0.12	136.5	0.08	850	UCL1V391MNL1GS
	470	10×13.5	0.12	164.5	0.06	1190	UCL1V471MNL1GS
50	100	8×10	0.10	50	0.18	670	UCL1H101MNL1GS
(1H)	220	10×10	0.10	110	0.12	900	UCL1H221MNL1GS
		I			l		I

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