

Chip Type, For Audio Equipment Wide Temperature Range



- Chip type acoustic series within the wide temperature range.
- 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

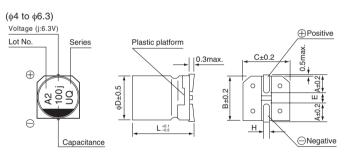
Item	Performance Characteristics											
Category Temperature Range	-40 to +105°C											
Rated Voltage Range	6.3 to 50V											
Rated Capacitance Range	1 to 1000μF											
Capacitance Tolerance	±20% (120Hz, 20°C)											
Leakage Current ※	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03 CV or 4 (μA) , whichever is greater.											
	Me						surement frequency : 120Hz at 20°C			0Hz at 20°C		
Tangent of loss angle (tan δ)	Rated voltage (V)	oltage (V) 6.3 10)	16	2	5	35		50		
	tan δ (max.) 0.30 0.26		6	0.22	0.1	16	0.13		0.12			
	Measurement frequency : 120Hz											
	Rated voltage (V)			6.3	10	16	6	25	3	5 50		
Stability at Low Temperature		Z(-25°C) / Z(-	+20°C)	4	3	2	2	2	2	2		
	(max.)	Z(-40°C) / Z(-	+20°C)	8	5	4		3	3	3		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated Capacitance change Within ±20% of the initial capacitance value tan δ 200% or less than the initial specified value											
	voltage is applied for 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 value tan δ Less than or equal to the initial specified value Less than or equal to the initial specified value											
Marking	Black print on the o	ase top.										

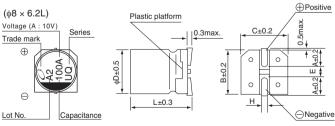
* I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V) Type numbering system (Example: 6.3V 100µF)

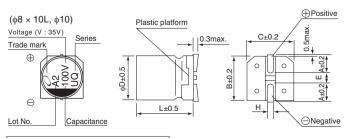
1 2 3 4 5 6 7 8 9 10 11 12 13 14

UUQOJ101MCL1GB

■Chip Type







 4×5.4 5×5.4 6.3×5.4 8 × 6.2 8 × 10 10 × 10 2.1 2.4 3.3 2.9 3.2 1.8 В 5.3 6.6 8.3 10.3 4.3 8.3

(mm) С 4.3 5.3 8.3 10.3 6.6 8.3 1.0 2.2 1.3 2.3 3.1 4.5 5.4 5.4 5.4 6.2 10 10 Н 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	Е	٧	Н

Frequency coefficient of rated ripple current

- Troqueriey decincions of rated apple 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				

Taping code

code

GB

GS

φD

4 to 6.3

8 • 10

Size code

Configuration

Series name

Туре

Capacitance tolerance (+20%)

Rated capacitance (100µF)

Rated voltage (6.3V)

UUQ

■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 1 minute	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	22	4×5.4	0.30	4.158	22	UUQ0J220MCL1GB
	33	5×5.4	0.30	6.237	30	UUQ0J330MCL1GB
	47	5×5.4	0.30	8.883	36	UUQ0J470MCL1GB
	100	6.3×5.4	0.30	18.9	60	UUQ0J101MCL1GB
Ī	220	8×6.2	0.30	41.58	102	UUQ0J221MCL1GS
6.3 (0J)	220	8×10	0.30	41.58	210	UUQ0J221MCL6GS
(00)	330	8×6.2	0.30	62.37	102	UUQ0J331MCL1GS
	330	8×10	0.30	62.37	210	UUQ0J331MCL6GS
-	470	8×10	0.30	88.83	210	UUQ0J471MCL1GS
Ī	470	10×10	0.30	88.83	310	UUQ0J471MCL6GS
-	1000	10×10	0.30	189	310	UUQ0J102MCL1GS
	10	4×5.4	0.26	4	22	UUQ1A100MCL1GB
-	22	5×5.4	0.26	6.6	27	UUQ1A220MCL1GB
-	33	5×5.4	0.26	9.9	35	UUQ1A330MCL1GB
	47	6.3×5.4	0.26	14.1	46	UUQ1A470MCL1GB
-	100	6.3×5.4	0.26	30	60	UUQ1A101MCL1GB
10	100	8×6.2	0.26	30	90	UUQ1A101MCL6GS
(1A)	220	8×6.2	0.26	66	102	UUQ1A221MCL1GS
	220	8×10	0.26	66	210	UUQ1A221MCL6GS
	330	8×10	0.26	99	210	UUQ1A331MCL1GS
	330	10×10	0.26	99	310	UUQ1A331MCL6GS
	470	8×10	0.26	141	210	UUQ1A471MCL1GS
	470	10×10	0.26	141	310	UUQ1A471MCL6GS
	10	4×5.4	0.22	4.8	18	UUQ1C100MCL1GB
	22	5×5.4	0.22	10.56	30	UUQ1C220MCL1GB
	33	6.3×5.4	0.22	15.84	40	UUQ1C330MCL1GB
	47	6.3×5.4	0.22	22.56	50	UUQ1C470MCL1GB
	100	8×6.2	0.22	48	102	UUQ1C101MCL1GS
16	100	8×10	0.22	48	210	UUQ1C101MCL6GS
(1C)	220	8×10	0.22	105.6	210	UUQ1C221MCL1GS
-	220	10×10	0.22	105.6	310	UUQ1C221MCL6GS
-	330	8×10	0.22	158.4	210	UUQ1C331MCL1GS
-	330	10×10	0.22	158.4	310	UUQ1C331MCL6GS
-	470	8×10	0.22	225.6	210	UUQ1C471MCL1GS
	470	10×10	0.22	225.6	310	UUQ1C471MCL6GS
	4.7	4×5.4	0.16	4	13	UUQ1E4R7MCL1GB
-	10	5×5.4	0.16	7.5	23	UUQ1E100MCL1GB
-	22	6.3×5.4	0.16	16.5	38	UUQ1E220MCL1GB
25 (1E)	33	6.3×5.4	0.16	24.75	48	UUQ1E330MCL1GB
(IE)	47	8×6.2	0.16	35.25	66	UUQ1E470MCL1GS
	100	8×10	0.16	75	155	UUQ1E101MCL1GS
	220	10×10	0.16	165	300	UUQ1E221MCL1GS



■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L (mm)	tan δ	Leakage Current (µA) (at 20°C after 1 minute	Rated Ripple (mArms) (105°C/120Hz)	Part Number
	4.7	4×5.4	0.13	4.935	15	UUQ1V4R7MCL1GB
	10	5×5.4	0.13	10.5	25	UUQ1V100MCL1GB
	22	6.3×5.4	0.13	23.1	42	UUQ1V220MCL1GB
35 (1V)	33	8×6.2	0.13	34.65	59	UUQ1V330MCL1GS
(11)	47	8×10	0.13	49.35	155	UUQ1V470MCL1GS
	100	10×10	0.13	105	300	UUQ1V101MCL1GS
	220	10×10	0.13	231	300	UUQ1V221MCL1GS
	1	4×5.4	0.12	4	6.2	UUQ1H010MCL1GB
	2.2	4×5.4	0.12	4	11	UUQ1H2R2MCL1GB
	3.3	4×5.4	0.12	4.95	14	UUQ1H3R3MCL1GB
	4.7	5×5.4	0.12	7.05	19	UUQ1H4R7MCL1GB
50 (1H)	10	6.3×5.4	0.12	15	30	UUQ1H100MCL1GB
(11)	22	8×6.2	0.12	33	51	UUQ1H220MCL1GS
	33	8×10	0.12	49.5	140	UUQ1H330MCL1GS
	47	8×10	0.12	70.5	180	UUQ1H470MCL1GS
	100	10×10	0.12	150	220	UUQ1H101MCL1GS

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