Chip Type, Low Impedance







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



UČV

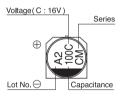


■ Specifications

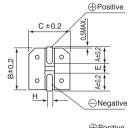
Item	Performance Characteristics												
Category Temperature Range	-55 to +105°C												
Rated Voltage Range	6.3 to 50V	6.3 to 50V											
Rated Capacitance Range	10 to 2200μF												
Capacitance Tolerance	±20% at 120Hz, 2	20°C											
Leakage Current	After 2 minutes' a	oplication of	rated v	oltage a	t 20°C,	lea	kage cur	rent is	not i	more th	nan 0.01 (CV (μA).	
-	Rated voltage (V)	6.3	1	0	16		25		35		50	Measurement frequency : 120Hz at 20°C	
Tangent of loss angle (tan δ)	tan δ (MAX.)	0.26	0.	19	0.16		0.14		0.12		0.10		
	Rated vo	oltage (V)		6.3	10	T	16	25	Т	35	50	Measurement frequency : 120Hz	
		Z-25°C / Z-	+20°C	2	2	\top	2	2	\top	2	2		
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	3	3		3	3		3	3		
	21 / 220 (WAX.)	Z-55°C / Z+20°C		4	4		4	3	3 3		3		
	The specifications	-	Capacitance chan					f the initial capacitance value					
Endurance	when the capacitors are restored to 20°C after the tan δ								200% or less than the initial specified value				
	rated voltage is ap	rated voltage is applied for 2000 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.												
	The capacitors are							Γ	Cai	pacitan	ce change	Within ±10% of the initial capacitance value	
Resistance to soldering	maintained at 250								tan			Less than or equal to the initial specified value	
heat	requirements liste and restored to 20		en the	y are ren	noved ti	rom	i the plate	•	Lea	akage c	current	Less than or equal to the initial specified value	
Marking	Black print on the	case top.											

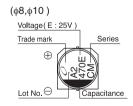
■Chip Type

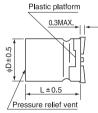


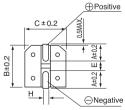




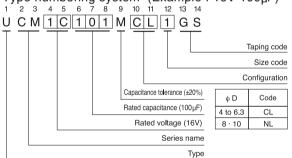








Type numbering system (Example : 16V 100 $\mu F)$ 1 2 3 4 5 6 7 8 9 10 11 12 13 14



						(11111)
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

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

UCM

■ Dimensions

Con	V	(6.3			10			16			25			35			50	
Cap. (µF)	Code		0J			1A			1C			1E			1V			1H	
10	100																● 4 🛮 5.8	2.30	85
	100		1			1 1									1 1		5 🛮 5.8	0.88	165
22	220		I I			1 1			1 1		4 🛮 5.8	1.00	160	4 🛮 5.8	1.00	160	5 🛮 5.8	0.88	165
33	330		I I			 			1 1		4 🛮 5.8	1.00	160	5 🛮 5.8	0.36	240		I I	1
47	470		I I					4 🛮 5.8	1.00	160	5 🛮 5.8	0.36	240	5 🛮 5.8	0.36	240	6.3 🛮 5.8	0.68	195
68	680		I I		4 🛮 5.8	1.00	160	5 🛮 5.8	0.36	240	5 🛮 5.8	0.36	240	6.3 🛮 5.8	0.26	300		I I	1
100	101	4 🛮 5.8	1.00	160		1		5 🛮 5.8	0.36	240	6.3 🛮 5.8	0.26	300	6.3 🛮 5.8	0.26	300	6.3 🛮 7.7	0.34	350
150	151		1		5 🛮 5.8	0.36	240	6.3 🛮 5.8	0.26	300	6.3 🛮 7.7	0.16	600	6.3 🛮 7.7	0.16	600		1	
220	221	5 🛮 5.8	0.36	240	6.3 🛮 5.8	0.26	300	6.3 🛮 5.8	0.26	300	6.3 🛮 7.7	0.16	600				8 🛮 10	0.18	670
330	331	6.3 🛮 5.8	0.26	300	6.3 🛮 7.7	0.16	600	6.3 🛮 7.7	0.16	600				8 🛮 10	0.08	850	10 🛮 10	0.12	900
470	471	6.3 🛮 7.7	0.16	600	6.3 🛮 7.7	0.16	600				8 🛮 10	0.08	850					i	
560	561													10 🛮 10	0.06	1190		ŀ	
680	681	6.3 🛮 7.7	0.16	600				8 🛮 10	0.08	850					1 1			1	1
820	821					1			1 1		10 🛮 10	0.06	1190					1	
1000	102				8 🛮 10	0.08	850	10 🛮 10	0.06	1190		1 1			1			1	1
1500	152	8 🛮 10	0.08	850	10 🛮 10	0.06	1190								1 1		Case size	I Impedance	Rated
2200	222	10 🛮 10	0.06	1190		1									1 1		ΦD∏L (mm)	I	ripple

MAX. Impedance (Ω) at 20°C 100kHz, Rated ripple current(mArms) at 105°C 100kHz
•In this case, 6 will be put at 12th digit of type numbering system.

• 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 refrow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UCL1V680MCL1GS	UCM1A471MCL1GS	UCM1V330MCL1GS	UCM1E680MCL1GS	UCM1A152MNL1GS
UCM0J681MCL1GS	UCM1H331MNL1GS	UCM1E330MCL1GS	UCM1V151MCL1GS	UCM0J101MCL1GS
UCM0J222MNL1GS	UCM1C102MNL1GS	UCM1C331MCL1GS	UCM1E151MCL1GS	UCM1C680MCL1GS
UCM1H100MCL6GS	UCM1V470MCL1GS	UCM1V331MNL1GS	UCM1A331MCL1GS	UCM1A221MCL1GS
UCM1E821MNL1GS	UCM0J331MCL1GS	UCM1C681MNL1GS	UCM1C101MCL1GS	UCM1A102MNL1GS
UCM1V220MCL1GS	UCM1E220MCL1GS	UCM1E101MCL1GS	UCM0J152MNL1GS	UCM1C221MCL1GS
UCM1H470MCL1GS	UCM1H220MCL1GS	UCM0J471MCL1GS	UCM1C151MCL1GS	UCM0J221MCL1GS
UCM1V561MNL1GS	UCM1E470MCL1GS	UCM1A680MCL1GS	UCM1V101MCL1GS	UCM1H221MNL1GS
UCM1A151MCL1GS	UCM1C470MCL1GS	UCM1H100MCL1GS	UCM1E471MNL1GS	UCM1E221MCL1GS
UCM1H101MCL1GS				