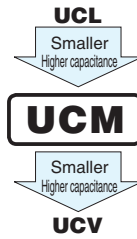


UCM Chip Type, Low Impedance



- 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.

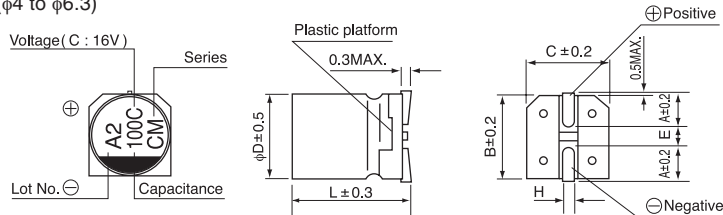


Specifications

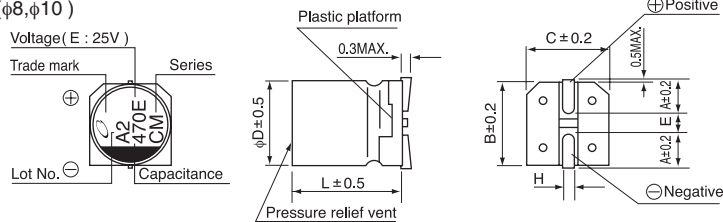
Item	Performance Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	6.3 to 50V	
Rated Capacitance Range	10 to 2200μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV (μA).	
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3 10 16 25 35 50
	tan δ (MAX.)	0.26 0.19 0.16 0.14 0.12 0.10
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C	
	Rated voltage (V)	6.3 10 16 25 35 50
	Z-25°C / Z+20°C	2 2 2 2 2 2
	Z-40°C / Z+20°C	3 3 3 3 3 3
Endurance	Z-55°C / Z+20°C	4 4 4 3 3 3
	Measurement frequency : 120Hz	
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C.	
Shelf Life	Capacitance change	Within ±30% of the initial capacitance value
	tan δ	200% or less than the initial specified value
	Leakage current	Less than or equal to the initial specified value
Resistance to soldering heat	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.	
	Capacitance change	Within ±10% of the initial capacitance value
	tan δ	Less than or equal to the initial specified value
Marking	Leakage current	Less than or equal to the initial specified value
	Black print on the case top.	

Chip Type

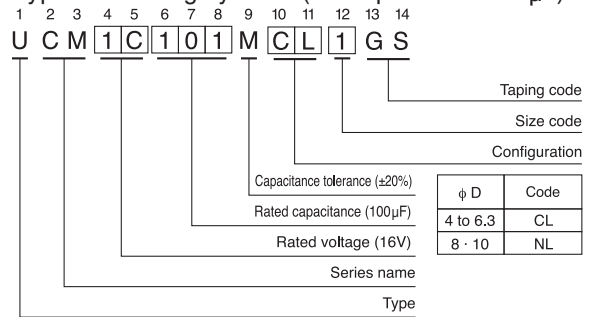
(φ4 to φ6.3)



(φ8, φ10)



Type numbering system (Example : 16V 100μF)



φD×L (mm)	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×10	10×10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	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
H	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	j	A	C	E	V	H

●Dimension table in next page.

UCM

■ Dimensions

Cap. (μ F)	V	6.3			10			16			25			35			50			
		0J			1A			1C			1E			1V			1H			
10	100																	● 4□5.8	2.30	85
																		5□5.8	0.88	165
22	220									4□5.8	1.00	160	4□5.8	1.00	160	5□5.8	0.88	165		
33	330									4□5.8	1.00	160	5□5.8	0.36	240					
47	470							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				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				
100	101	4□5.8	1.00	160				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				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				
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							
560	561													10□10	0.06	1190				
680	681	6.3□7.7	0.16	600				8□10	0.08	850										
820	821										10□10	0.06	1190							
1000	102				8□10	0.08	850	10□10	0.06	1190										
1500	152	8□10	0.08	850	10□10	0.06	1190													
2200	222	10□10	0.06	1190													Case size ϕ D□L (mm)	Impedance	Rated 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 reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.