Chip Type, Low Impedance









For SMD Low Impedance Anti-Solvent Feature

- 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 compliant. Please contact us for details.



UCV





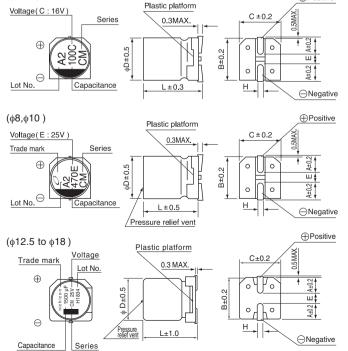
■ Specifications

Item						Perfo	ormance	Chara	cteris	stics					
Category Temperature Range	−55 to +105°C	-55 to +105°C													
Rated Voltage Range	6.3 to 100V	3.3 to 100V													
Rated Capacitance Range	10 to 5100μF														
Capacitance Tolerance	±20% at 120Hz, 2	20°C													
Leakage Current	After 2 minutes' a	pplication of	rated \	oltage a	t 20°C,	, leak	age curi	rent is	not n	more th	nan 0.01	CV or 3 (µ	A) , whic	hever is	greater.
	Measurement frequency : 120Hz at 20°C														
T (1	Rated voltage (V) 6.3		1	0	16		25		35		50	63	8	30	100
Tangent of loss angle (tan δ)	tan δ (MAX.) 0.26		0.	19	0.16		0.14		0.12		0.10	0.08	0.	08	0.07
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.(\phi12.5 to \phi18)														
	Measurement frequency : 120Hz														
	Rated v	Rated voltage (V)		6.3	10		16	25		35	50	63	80	100	7
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z-	+20°C	2	2		2	2		2	2	2	2	2	
		Z-40°C / Z-	+20°C	3	3		3	3		3	3	3	3	3	
		Z-55°C / Z-	+20°C	4	4		4	3		3	3	3	3	3	
	The specifications listed at right shall be met Canaditance change Within ±30% of the initial canaditance value														
	when the capacito				er the	_					hin ±30% of the initial capacitance value				
Endurance	rated voltage is a					tan			200% or less than the initial specified value						
	hours for φD ≤ 10) 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 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						S C 5101-4								
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.					o the initial s	specified value								
Marking	Black print on the														

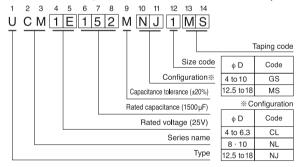
⊕Positive

■Chip Type

(φ4 to φ6.3)



Type numbering system (Example: 25V 1500µF)



												(mm)
ΦDxL	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10	12.5 × 13.5	12.5 × 21	16 × 16.5	16×21.5	18 × 16.5	18 × 21.5
Α	1.8	2.1	2.4	2.4	2.9	3.2	5.15	5.15	5.65	5.65	6.65	6.65
В	4.3	5.3	6.6	6.6	8.3	10.3	13.6	13.6	17.1	17.1	19.1	19.1
С	4.3	5.3	6.6	6.6	8.3	10.3	13.6	13.6	17.1	17.1	19.1	19.1
Е	1	1.3	2.2	2.2	3.1	4.5	3.3	3.3	5.8	5.8	5.8	5.8
L	5.8	5.8	5.8	7.7	10	10	13.5	21	16.5	21.5	16.5	21.5
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 5.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Voltage

V	6.3	10	16	25	35	50
Code	j	Α	С	E	V	Н

UCM

■ Dimensions

Cap. (µF) Code		-				10			16			25			35			50	
				1A			1C		1E		1V			1H					
10	100								1	İ		į					● 4 🛚 5.8	2.30	85
10	100		1						1	l I		i			1	 	5 🛮 5.8	0.88	165
22	220		I .				l		1	l I	4 🛮 5.8	1.00	160	4 🛮 5.8	1.00	160	5 🛮 5.8	0.88	165
33	330		[[l I	4 🛮 5.8	1.00	¦ 160	5 🛮 5.8	0.36	240			l
47	470		l I	1		 		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			ļ
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		1	1	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		i		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		<u> </u>		8 🛮 10	0.08	850		i	i	12.5 🛮 13.5	0.12	1340
560	561									1		i		10 🛮 10	0.06	1190		i	
680	681	6.3 🛮 7.7	0.16	600				8 🛮 10	0.08	850		!				1		1	<u></u>
750	751		I I							l I		<u> </u>			1	1	12.5 🛮 21	0.08	
820	821		I			1 1			1	l I	10 🛮 10	0.06	¦ 1190		 	I I	16 🛮 16.5	0.08	1820
910	911		I I			1 1			1	l I		1	I I	12.5 🛮 13.5	0.058	1420		1 1	l
1000	102		[[8 🛮 10	0.08	850	10 🛮 10	0.06	1190		1	l 		 	I I		[<u> </u>
1100	112									l 		1					18 🛮 16.5	0.078	1980
1200	122								1			<u> </u>			1	I	16 🛮 21.5	0.05	2440
1500	152	8 🛮 10	0.08	850	10 🛮 10	0.06	1190		1	1	12.5 🛮 13.5	0.058	1420		1	1		1	
1600	162					1				i		i		12.5 🛮 21		_	18 🛮 21.5	0.05	2550
1800	182								<u> </u>			i		16 🛮 16.5				i	
2200	222	10 🛮 10	0.06	1190						1		<u> </u>		18 🛮 16.5	0.045	2060		i	<u>'</u>
2400	242								1	l I	12.5 🛮 21	0.046	2080			! !		1	
2700	272		I			1			l I	l I	16 🛮 16.5	0.047	¦ 1910	16 🛮 21.5				1	
3600	362		I			1			 	l I	18 🛮 16.5	0.045	2060	18 🛮 21.5	0.032	2640		I	
3900	392		I I			 			 	l I	16 🛮 21.5	0.034	2540		 	I I	Case size	 Impedance	Rated
5100	512		I			1			 	l L	18 🛮 21.5	0.032	2640		I I	I I	ΦD∏L (mm)	1	ripple

●In this case, 6 will be put at 12th digit of type numbering system.

Cap. V		(80		100					
(μF)	Code		1J			1K		2A			
130	131					I I	l I	12.5 🛘 13.5	0.18	1050	
220	221		 		12.5 🛘 13.5	0.18	1050	12.5 🛮 21	0.11	1580	
240	241		I I			I I	l I	16 🛮 16.5	0.10	1500	
330	331					I .	l I	18 🛮 16.5	0.098	1670	
360	361	12.5 🛘 13.5	0.14	1250	12.5 🛮 21	0.11	1580		i		
390	391				16 🛮 16.5	0.10	1500	16 🛮 21.5	0.066	2040	
510	511				18 🛮 16.5	0.098	1670	18 🛮 21.5	0.063	2140	
560	561	12.5 🛮 21	0.086	1850	16 🛮 21.5	0.066	2040		l I	! !	
620	621	16 🛮 16.5	0.082	1740		1	l I		l I	1	
750	751		 		18 🛮 21.5	0.063	2140		l I	1	
820	821	18 🛮 16.5	0.08	1880		T T	l I		I I	I I	
910	911	16 🛮 21.5	0.055	2330		1 1 1 1 1 1		Case size	I Impedance	Rated ripple	
1200	122	18 🛮 21.5	0.054	2430				фD∏L (mm)	ΦD L (mm)		

MAX. Impedance (Ω) at 20°C 100kHz, Rated ripple current(mArms) at 105°C 100kHz

- 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.

• 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

Mouser Electronics

Authorized Distributor

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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	UCM1E152MNJ1MS	UCM1E242MNJ1MS	UCM1E272MNJ1MS	UCM1E362MNJ1MS
UCM1E392MNJ1MS	UCM1E512MNJ1MS	UCM2A241MNJ1MS	UCM2A331MNJ1MS	UCM2A391MNJ1MS
UCM2A511MNJ1MS	UCM1V222MNJ1MS	UCM1V272MNJ1MS	UCM1V362MNJ1MS	UCM1V911MNJ1MS
UCM2A131MNJ1MS	UCM2A221MNJ1MS	UCM1K391MNJ1MS	UCM1K511MNJ1MS	UCM1K561MNJ1MS
UCM1K751MNJ1MS	UCM1V162MNJ1MS	UCM1V182MNJ1MS	UCM1J561MNJ1MS	UCM1J621MNJ1MS
UCM1J821MNJ1MS	UCM1J911MNJ1MS	UCM1K221MNJ1MS	UCM1K361MNJ1MS	UCM1H112MNJ1MS
UCM1H162MNJ1MS	UCM1H471MNJ1MS	UCM1H751MNJ1MS	UCM1H821MNJ1MS	UCM1J361MNJ1MS
UCM1J122MNJ1MS				