

UCV

Chip Type, Low Impedance.



For SMD

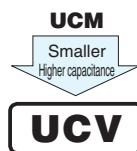


Low Impedance



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).

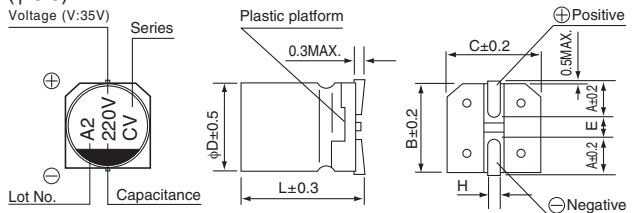


■ Specifications

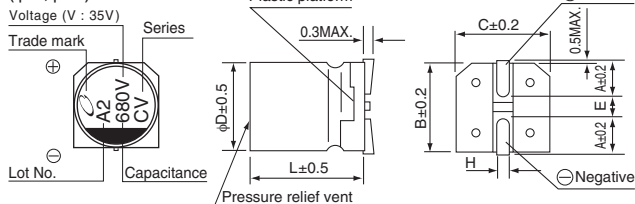
Item	Performance Characteristics				
Category Temperature Range	-55 to +105°C				
Rated Voltage Range	25 to 35V				
Rated Capacitance Range	220 to 1000μF				
Capacitance Tolerance	± 20% at 120Hz, 20°C				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV.				
Tangent of loss angle (tan δ)	Rated voltage (V)	25	35	Measurement frequency : 120Hz at 20°C	
	tan δ (MAX.)	0.14	0.12		
Stability at Low Temperature	Rated voltage (V)		25	35	Measurement frequency : 120Hz
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	2	2	
		Z-40°C / Z+20°C	3	3	
		Z-55°C / Z+20°C	3	3	
Endurance	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.			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
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 ±10% of the initial capacitance value
				tan δ	Less than or equal to the initial specified value
				Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.				

■ Chip Type

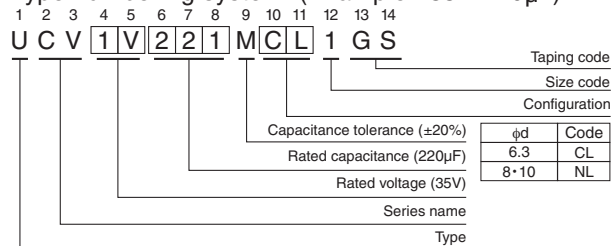
(φ 6.3)



(φ 8, φ10)



Type numbering system (Example : 35V 220μF)



Rated Voltage			Standard (mm)		
V	25	35	6.3X7.7	8X10	10X10
Code	E	V	A	B	C
			2.4	2.9	3.2
			6.6	8.3	10.3
			6.6	8.3	10.3
			2.2	3.1	4.5
			7.7	10	10
			H	0.5 to 0.8	0.8 to 1.1

■ Dimensions

V		25		35	
Cap. (μF)	Code	1E	1V	1E	1V
220	221			6.3 × 7.7	0.16 600
330	331	6.3 × 7.7	0.16 600		
470	471			8 × 10	0.08 850
560	561	8 × 10	0.08 850		
680	681			10 × 10	0.06 1190
820	821				
1000	102	10 × 10	0.06 1190	Case size φD × L (mm)	Impedance Rated ripple

● 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

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

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