UCV

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,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.





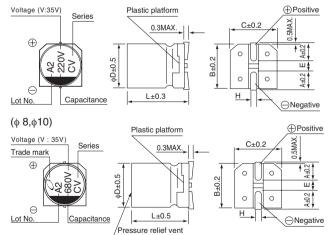


Specifications

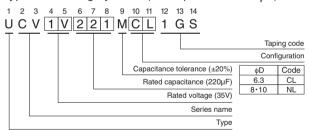
Item	Performance Characteristics					
Category Temperature Range	-55 to +105°C					
Rated Voltage Range	16 to 35V					
Rated Capacitance Range	220 to 1500µF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage cur	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).				
Tangent of loss angle (tan δ)	Rated voltage (V) 16 25 35 Measurement frequency : 120Hz at 20°C tan δ (MAX.) 0.16 0.14 0.12					
Stability at Low Temperature	Rated voltage (V) 16 25 35 Impedance ratio ZT / Z20 (MAX.) Z-55°C / Z+20°C 4 3 3 3 Z-55°C / Z+20°C 4 3 3					
Endurance	capacitors are restored to 20°C after the rated voltage is	Capacitance change Within $\pm 30\%$ of the initial capacitance value an 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 characteristic requirements listed at right when they	Capacitance change Within $\pm 10\%$ 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





Type numbering system (Example : $35V 220\mu F$)



Voltage			
V	16	25	35
Code	С	Е	٧

Standard (mm)					
♦DXL	6.3×7.7	8×10	10×10		
Α	2.4	2.9	3.2		
В	6.6	8.3	10.3		
С	6.6	8.3	10.3		
Е	2.2	3.1	4.5		
L	7.7	10	10		
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1		

• 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



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Impedance(Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
	470	6.3×7.7	0.16	75.2	0.16	600	UCV1C471MCL1GS
16 (1C)	820	8×10	0.16	131.2	0.08	850	UCV1C821MNL1GS
,	1500	10×10	0.16	240	0.06	1190	UCV1C152MNL1GS
	330	6.3×7.7	0.14	82.5	0.16	600	UCV1E331MCL1GS
25 (1E)	560	8×10	0.14	140	0.08	850	UCV1E561MNL1GS
	1000	10×10	0.14	250	0.06	1190	UCV1E102MNL1GS
	220	6.3×7.7	0.12	77	0.16	600	UCV1V221MCL1GS
35 (1V)	470	8×10	0.12	164.5	0.08	850	UCV1V471MNL1GS
	680	10×10	0.12	238	0.06	1190	UCV1V681MNL1GS

<sup>Taping specifications are given in page 20.
Recommended land size, soldering by refrow are given in page 16, 17.
Please refer to page 3 for the minimum order quantity.</sup>