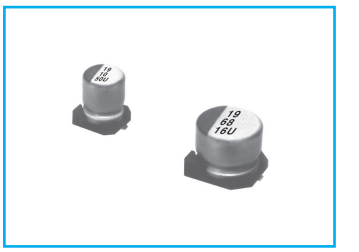
UC Chip type, High Reliability Series

Solvent Proof
WV≦100V

RC ⇨ UC
High Temp.



- Chip type, high temperature range, for 125˚C use
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

Item	Characteristics
Operating temperature range	-40 ~ +125˚C
Leakage current max.	WV≦100 I = 0.03CV or 4μA whichever is greater (after 2 minutes) WV≧160 I = 0.04CV + 100μA(after 1 minutes)
Capacitance tolerance	±20% at 120Hz, 20˚C
Dissipation factor max. (at 120Hz, 20˚C)	WV: 10 / 16 / 25 / 35~63 / 80~100 / 160~200 / 250~400 tanδ: 0.32 / 0.24 / 0.21 / 0.18 / 0.12 / 0.2 / 0.24
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 10 / 16 / 25 / 35~63 / 80~100 / 160~200 / 250~400 Z-25˚C/Z+20˚C: 8 / 6 / 4 / 4 / 3 / 3 / 6 Z-40˚C/Z+20˚C: 12 / 8 / 6 / 4 / 4 / 6 / 10
Load life (after application of the rated voltage for 2000 hours at 125˚C)	Leakage current: Less than specified value Capacitance change: Within ±30% of initial value tanδ: Less than 300% of specified value
Shelf life (at 125˚C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20˚C by the KS C IEC 60384 - 4
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20˚C after exposing them at 250˚C for 10 seconds. Leakage current: Less than specified value Capacitance change: Within ±10% of initial value tanδ: Less than specified value

● DRAWING (See page 69)

Unit : mm

-Series code of UC is “U”

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10		16		25		35		50		63	
10									8×6.2	65	8×6.2	40
22									8×6.2	65	8×10	67
33							8×6.2	65	8×10	125	8×10	67
47					8×6.2	65	8×10	125	10×10	200	10×10	115
68			8×6.2	65	8×6.2	65	10×10	200	12.5×13.5	525	12.5×13.5	335
100	8×6.2	65	8×10	125	8×10	125	10×10	200	12.5×13.5	525	12.5×13.5	335
220	8×10	125	10×10	200	10×10	200	12.5×13.5	525				
330	10×10	200	10×10	200	12.5×13.5	525						
470	10×10	200	12.5×13.5	525								
1000	12.5×13.5	525										

Ripple current (mA rms) at 125˚C, 120Hz
Case size ØD×L(mm)

μF \ WV	80		100		160		200		250		400	
3.3											12.5×13.5	30
4.7									12.5×13.5	45	12.5×13.5	30
10	8×10	45	8×10	45	10×10	45	10×10	45	12.5×13.5	85		
22	8×10	45	10×10	80	12.5×13.5	85	12.5×13.5	85				
33	10×10	80	10×10	80								
47	10×10	80	12.5×13.5	300								
68	12.5×13.5	300	12.5×13.5	300								

Ripple current (mA rms) at 125˚C, 120Hz
Case size ØD×L(mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz≦
Coefficient	0.70	1.00	1.17	1.36	1.50