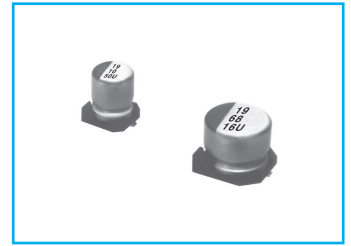


## UC Chip type, High Reliability Series

- 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

Solvent Proof  
WV ≤ 100V



RC → High Temp.

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 60)

-Series code of UC is "U"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10	16	25	35	50	63
10					8×6.2	40
22					8×6.2	67
33				8×6.2	65	67
47			8×6.2	65	8×10	115
68		8×6.2	65	8×6.2	65	335
100	8×6.2	65	8×10	125	8×10	125
220	8×10	125	10×10	200	10×10	200
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
4.7						30
10	8×10	45	8×10	45	10×10	45
22	8×10	45	10×10	80	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