

# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

**UR** Chip type, High Reliability Series



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

UC → **UR**  
Low ESR.

Item	Characteristics					
Operating temperature range	-40 ~ +125°C					
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)					
Capacitance tolerance	±20% at 120Hz, 20°C					
Dissipation factor max.	WV	10	16	25	35	50
	tanδ (Max.)	0.24	0.20	0.16	0.14	0.14
Temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35	50
	Z-25°C/Z+20°C	3	2	2	2	2
	Z-40°C/Z+20°C	4	3	3	3	3
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 59)

Unit : mm

-Series code of UR is "R"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10			16			25			35			50		
33															
47										8×10	0.3	264	10×10	0.5	330
100				8×10	0.3	264	8×10	0.3	264	8×10	0.3	264	10×10	0.5	330
220	8×10	0.3	264	8×10	0.3	355	8×10	0.3	355	10×10	0.2	400			
330	8×10	0.3	355	10×10	0.2	400	10×10	0.2	400						
470	10×10	0.2	400												

↑ ↑ ↑  
Ripple current (mA rms) at 125°C, 100kHz  
ESR (Ω) at 20°C, 100kHz  
Case size ØD × L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ≤
Coefficient	0.35	0.50	0.64	0.83	1.00