SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

UN Chip type, High Reliability Series

Low ESR Solvent Proof

- Chip type, high temperature range, for 125˚C use
- Lower ESR than UR series
- Application to automotive system
- Complied to the RoHS directive

UR ⇒ UN
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. (at 120Hz, 20˚C)	WV: 35; tanδ: 0.16
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 35; Z-25˚C/Z+20˚C: 2; Z-40˚C/Z+20˚C: 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 62)

Unit : mm

-Series code of UN is “UN”

ØD×L	A	B	C	E	R
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / Item / μF	35			
	ØD×L(mm)	ESR (Ω)max.		Ripple current (mA rms) 125˚C 100kHz
		20˚C 100kHz	-40˚C 100kHz	
47	6.3 × 7.7	0.30	3.0	200
100	6.3 × 7.7	0.27	2.7	240
220	8 × 10	0.20	2.0	270
330	10 × 10	0.15	1.5	500

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz≦
Coefficient	0.35	0.5	0.64	0.83	1.00