

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade

UN Chip type, High Reliability Series

IEI Low ESR **S** 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 60)

Unit : mm

-Series code of UN is "UN"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	35		
	∅D×L(mm)	ESR (Ω)max. 20°C 100kHz	Ripple current (mA rms) 125°C 100kHz
47	6.3 × 7.7	0.30	200
100	6.3 × 7.7	0.24	240
220	8 × 10	0.20	270
330	10 × 10	0.15	500

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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