nichicon

ALUMINUM ELECTROLYTIC CAPACITORS



Chip Type, High Reliability. Low temperature ESR specification.





- Added ESR specification after the test at -40°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



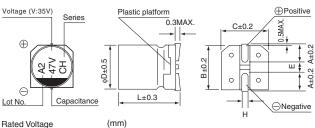


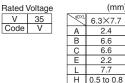
Specifications

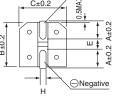
Item	Performance Characteristics						
Category Temperature Range	-40 to +125°C						
Rated Voltage Range	35V						
Rated Capacitance Range	47 to 100µF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV.						
Tangent of loss angle (tan $\delta)$	Rated voltage (V) 35 tan δ (MAX.) 0.16						
Stability at Low Temperature	Rated voltage (V) 35 Measurement free Impedance ratio ZT / Z20 (MAX.) Z-40°C / Z+20°C 3	rement frequency : 120Hz					
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 125°C.	$\begin{array}{c} \text{Capacitance change} \\ \text{tan } \delta \\ \text{Leakage current} \end{array}$	Within ±30% of the initial capacitance value 300% or less than the initial specified value Less than or equal to the initial specified value				
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.	Capacitance change tan δ Leakage current	Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value				
Marking	Black print on the case top.						

Chip Type

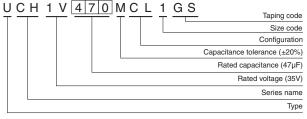
(\$ 6.3)







Type numbering system (Example : 35V 47 $\mu F)$ 1 2 3 4 5 6 7 8 9 10 11 12 13 14



Dimensions

\searrow	V	35				
Сар. (µF)	Code	1V				
47	470	6.3×7.7	0.30	3	6	197
100	101	6.3 × 7.7	0.30	3	6	197
		Case size φD × L (mm)	Initial 20°C 100kHz	Initial -40°C 100kHz ESR	ater redurance test 2000hours -40°C 400kHz	Rated

• Frequency coefficient of rated ripple current

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

Max. ESR (Ω) at 20°C / -40°C 100k to 400kHz, Rated ripple Current (mArms) at 125°C 100kHz

Design, Specifications are subject to change without notice.

NICHICON CORPORATION