ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



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 Impedance ratio ZT / Z20 (MAX.) Z-40°C / Z+20°C 3					
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)







Dimensions

V 35 Code V <u>_</u>∳D>

A

B

C

6.3×7.7

2.4

6.6 6.6

E 2.2 L 7.7 H 0.5 to 0.8

	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 Initial 20°C -40°C 100kHz 100kHz	ater 2000hours -40°C Rated 1 400kHz ripple	

• 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