



# Aluminum electrolytic capacitors

## ANH series

### Description

Low impedance  
Low ESR  
Wide frequency range

### Applications

Hi-End electronics  
Consumer electronics  
Industrial electronics

### Electrical characteristics

Operating temperature:  $-25^{\circ}\text{C} \div 70^{\circ}\text{C}$   
Nominal voltage: 500Vdc  
Rated capacitance:  $30\mu\text{F} \div 100 \mu\text{F}$   
Capacitance tolerance (at 100Hz,  $20^{\circ}\text{C}$ ):  $-10\%+30\%$   
Dissipation factor (at 100Hz,  $20^{\circ}\text{C}$ ): 0,18  
Leakage current (after 5 minutes application of rated voltage):  $I = 0,005.C.U$   
I - current [ $\mu\text{A}$ ]  
C - rated capacitance [ $\mu\text{F}$ ]  
U - rated voltage [V]

The aluminum case capacitors are supplied with PVC sleeve insulation and a safety vent located on end-deck. Plus pole is marked on the perimeter.

#### Load life:

Load life is 1000 Hrs (at maximum operating temperature, at rated voltage and AC current load as per Table 1).

After 1000 Hrs of the above application of rated voltage and current load, capacitors must meet the following characteristics requirements:

Capacitance change  $\leq \pm 15\%$  of initial value.

$\tan \delta \leq 150\%$  of initial value

Leakage current  $\leq$  initial value

#### AC Load:

The maximum AC load at maximum operating temperature ( $70^{\circ}\text{C}$ ) is given in Table 1. The AC load can be increased at lower operating temperatures by coefficient as per Table 2, with capacitor life expectancy unaffected.

Table 1

Type Number	Rated Capacitance $C_N$ [ $\mu\text{F}$ ]	Rated Voltage $U_N$ [V]	Dimensions [D x L v mm]	max. $\tan\delta$ at 100Hz, $20^{\circ}\text{C}$	I <sub>ac</sub> [mA]	Drawing Number
ANH 0305011	30	500	25x42	0,18	100	1
ANH 0475011	47	500	25x42	0,18	160	1
ANH 0805011	80	500	25x42	0,18	240	1
ANH 1005011	100	500	25x42	0,18	300	1

Table 2

Coefficient for permissible Iac increase	2,3	2,0	1,7	1,53	1,3	1,15	1,0
Operating temperature	$\leq 40^{\circ}\text{C}$	$45^{\circ}\text{C}$	$50^{\circ}\text{C}$	$55^{\circ}\text{C}$	$60^{\circ}\text{C}$	$65^{\circ}\text{C}$	$70^{\circ}\text{C}$

Drawing 1:

