



Aluminum Electrolytic capacitors

MNH series

Description

Low impedance
 Low ESR
 Wide frequency range
 Wide operating temperature range

Applications

Power supplies
 Consumer electronics
 Industrial electronics

Electrical characteristics

Operating Temperature: $-25^{\circ}\text{C} \div 85^{\circ}\text{C}$
 Rated Voltage: $400\text{Vdc} \div 450\text{Vdc}$
 Rated Capacitance: $100\mu\text{F} \div 330 \mu\text{F}$
 Capacitance Tolerance (pri 100Hz, 20°C): $-20\%+20\%$
 Dissipation factor (pri 100Hz, 20°C): $0,15 \div 0,18$
 Leakage current (after 5 minutes application of rated voltage): $I = 0,005.C.U$
 I - current [μA]
 C - rated capacitance [μF]
 U - rated voltage [V]

The aluminum case capacitors are supplied with PVC sleeve insulation and a safety vent located on end-deck.

Load life:

Load life is 2000 Hrs (at maximum operating temperature, at rated voltage and AC current load as per Table 1).

After 2000 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 (85°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.

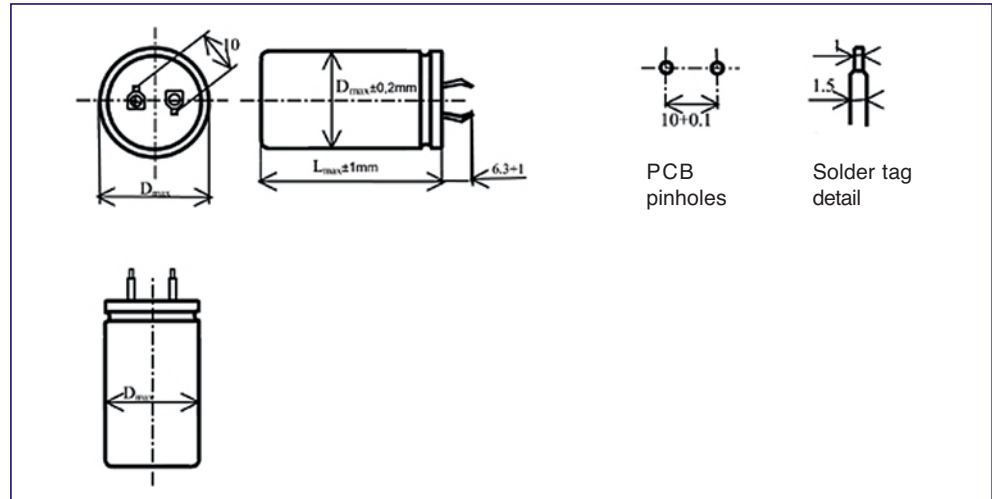
Table 2

Type Number	Rated Capacitance C_N [μF]	Rated Voltage U_N [V]	Dimensions [D x L v mm]	max. $\tan \delta$ at 100Hz, 20°C	Iac [mA]	Drawing Number
MNH 040	100	400	22x42	0,15	600	1
MNH 040	150	400	25x42	0,15	800	1
MNH 040	220	400	30x50	0,15	1000	1
MNH 040	330	400	30x50	0,18	1400	1
MNH 040	470	400	35x50	0,18	1800	1
MNH 045	180	450	25x42	0,15	900	1
MNH 045	390	450	35x50	0,18	1500	1
MNH 045	940	450	40x68	0,18	3500	2

Table 1

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°C	50°C	55°C	60°C	70°C	85°C

Drawing 1:



Drawing 2:

