

Description

Low impedance
Low ESR
Wide frequency range

Applications

Power supplies
Hi-End electronics
Industrial electronics

Electrical characteristics



Operating temperature : $-25^{\circ}\text{C} \div 70^{\circ}\text{C}$
 Rated voltage : 560VDC
 Rated capacitance : $50\mu\text{F} \div 350\mu\text{F}$
 Capacitance tolerance (at 100Hz, 20°C): $-10\% +30\%$
 Dissipation factor (at 100Hz, 20°C): $0,15 \div 0,25$
 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 1000 hours (at maximum operating temperature, at rated voltage and AC current load as per Table 1).

After 1000 hours 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°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.

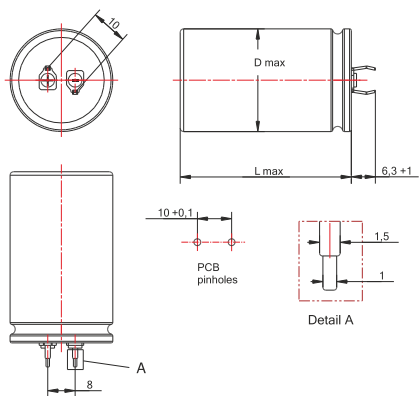
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table

Type Number	Rated Capacitance C_N [μF]	Rated Voltage U_N [V]	Dimensions [D x L mm]	max. $\tan \delta$ at 100Hz, 20°C	I _{ac} [mA]	Drawing Number
VNH 0505612	50	560	25 x 42	0,20	130	1
VNH 1005612	100	560	30 X 50	0,20	240	1
VNH 2005613	200	560	35 X 70	0,25	400	2
VNH 3505613	350	560	35 X 90	0,25	560	2
VNH 0325623	32 + 32	560	35 x 50	0,25	100 + 100	3
VNH 0505623	50 + 50	560	35 X 50	0,25	130 + 130	3
VNH 1005623	100 + 100	560	35 X 70	0,25	200 + 200	3
VNH 4325643	40 + 3x 20	560	40 x 50	0,25	120 + 3x60	4

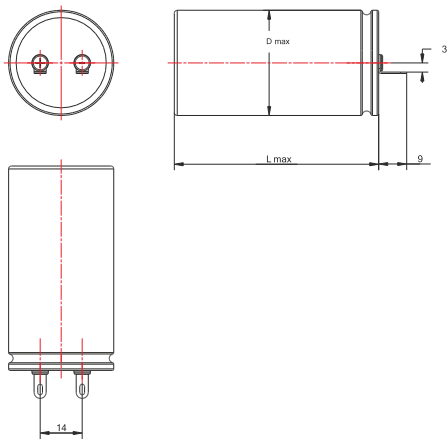
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table

Coefficient for permissible lac 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	65°C	70°C

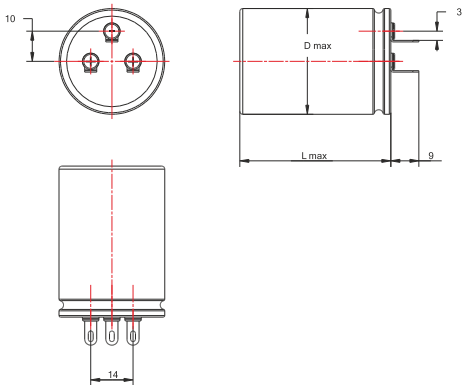
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