TC series Aluminum Electrolytic Capacitors

Description

Low impedance
Low ESR
Wide frequency range

Applications

Power supplies
Hi-End electronics
Industrial electronics

Electrical characteristics

Operating temperature: -25°C ÷ 70°C
Rated voltage: 385VDC ÷ 500VDC
Rated capacitance: 47µF ÷ 800µF
Capacitance tolerance (at 100Hz, 20°C): -10% +30%
Dissipation factor (at 100Hz, 20°C): 0,15 ÷ 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 <= +/- 15% of initial value
Tan δ <= 150% of initial value
Leakage current <=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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01 table

Type Number	Rated Capacitance C_N [µF]	Rated Voltage U_N [V]	Dimensions D_{max} x L_{max} [mm x mm]	Max. tanδ at 100Hz, 20°C	Iac [mA]	Drawing Number
TC 529	16 + 16	500	35 x 50	0,20	100 + 100	3

02 table

Coefficient for permissible Iac increase	2,3	2,0	1,7	1,53	1,3	1,15	1,0
Operating temperature	<= 40°C	45°C	50°C	55°C	60°C	65°C	70°C

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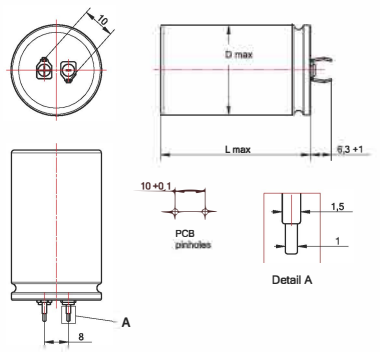
01



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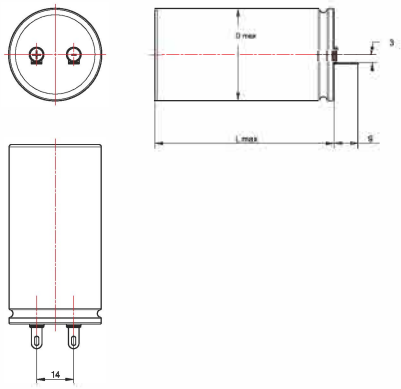

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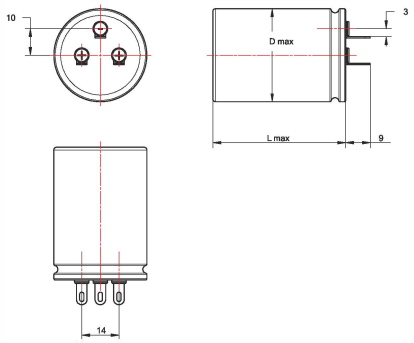

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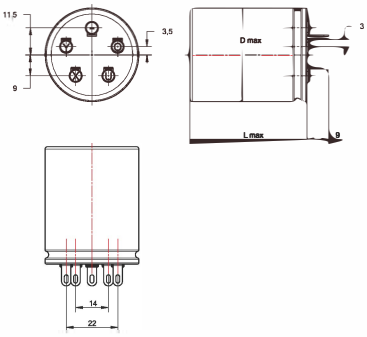

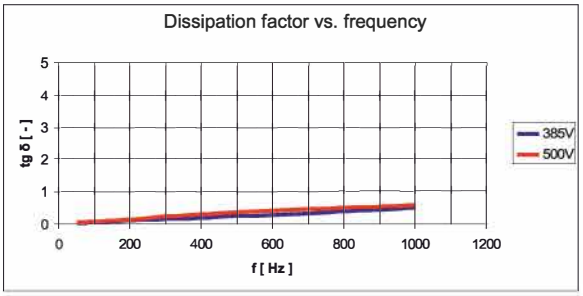

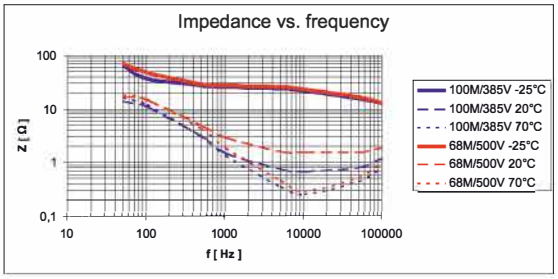

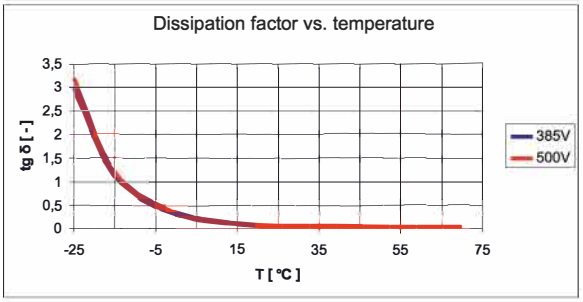

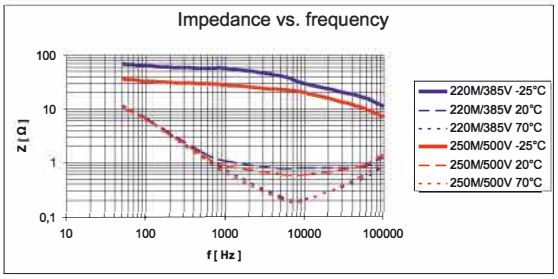

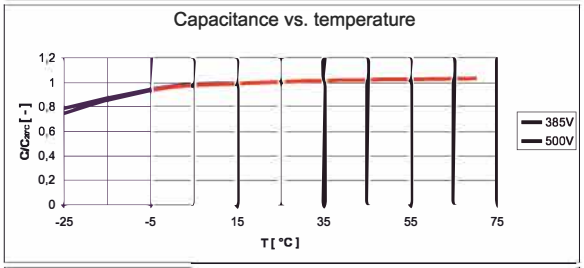

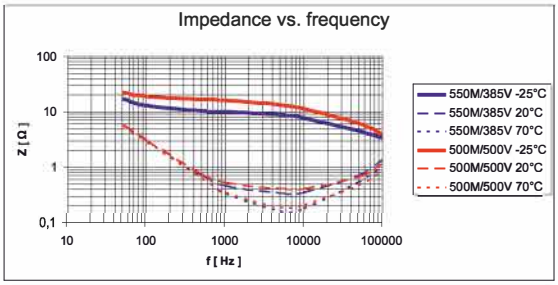

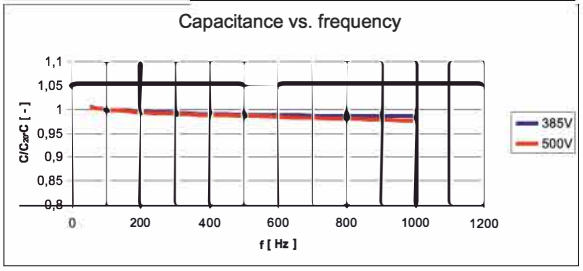

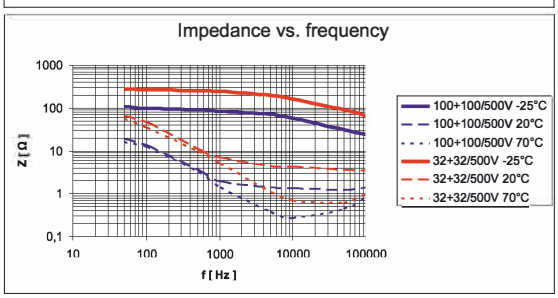

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