

# Operating Life

The lifetime of a capacitor depends on the hot spot temperature and on the field strength in its dielectric during operation. The capacitors have been designed for an average probable service life of 100.000hrs at rated duty (voltage, temperature and frequency).

During the life of the product the probable failure rate is 300FIT at rated duty (voltage, temperature and frequency).

Operating condition higher than the rated duty may increase the FIT rate. Failures are considered short circuits, interruptions, capacitance drifts. Lifetime is a statistical value calculated on the basis of experience and on theoretical evaluations.

It does not have an absolute value and it is not possible to

transfer automatically data coming from a limited quantity of capacitors to a whole population or even to a single batch of capacitors.

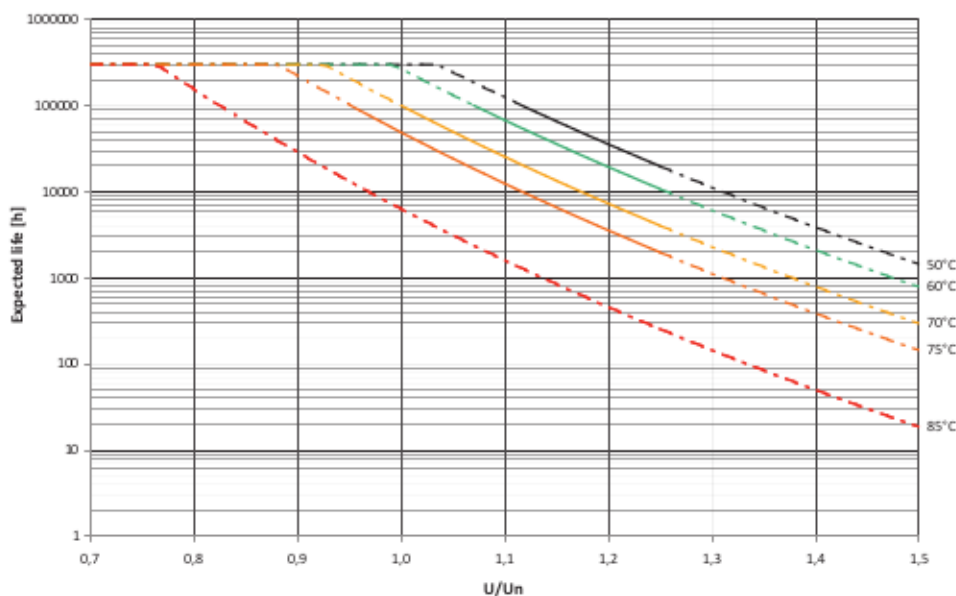
The following diagrams show the correlation between useful life, hot spot temperature and operating voltage.

The diagrams should be considered only as a theoretical reference.

Dashed lines underline a high degree of uncertainty in case of voltage and hot temperature far from the rated ones, whose effect is a wide scattering in the experimental data. Please consult our technical department in case of working condition different from the rated ones.

## Theoretical expected life time vs voltage and hot spot temperature

APPLICABLE FOR LNK-P1X, P2X, P2Z, P2L, P2T, P4X, P5X, P6X, P7X, P8X, P9X OF THIS CATALOGUE



APPLICABLE FOR LNK-M3, LNK-M2 AND LNK-P3X OF THIS CATALOGUE

