

Metallized Polyester Capacitors for "Low-Noise" Applications



WIMA MKS 4-LN **NEW**

Introduction

Low noise Polyester capacitors are very important for electronic equipment. They are needed in AC applications when noise may be created in a capacitor which impacts the environment.

With certain frequencies Polyester capacitors may create a noise level of up to 80dB(A) - this "humming" or "whistling" can be observed e.g. in ballasts in the lighting industry, in monitors and TV sets or in audio equipment. With a new construction principle noise creation has been considerably reduced, at the same time several electrical properties have been substantially improved.

Construction Principle

By means of a modified construction of the capacitor there is no longer an electrical field in the gaps between the layers of the winding element and, as a consequence no force can be active and create vibrations of the film. Thus a considerable reduction of noise intensity is obtained.

Features of LN Film Capacitors

Noise intensity: LN capacitors are up to 20dB(A) less noisy than conventional Polyester capacitors, i.e:

With $\Delta = 10\text{dB(A)}$: 1 conventional capacitor creates the same noise as 10 LN capacitors!

With $\Delta = 20\text{dB(A)}$: 1 conventional capacitor creates the same noise as 100 LN capacitors!

Electrical properties: In comparison to conventional Polyester capacitors LN capacitors feature a considerably lower variation of the noise level values and considerably lower deviation of capacitance and dissipation factor with temperature.

Fields of Application

Lighting industry

TV/Monitor sets

Audio/Video applications

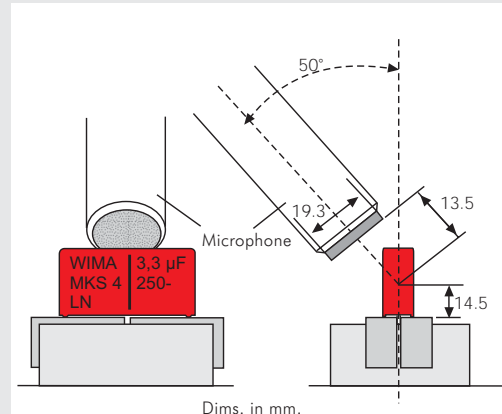
Communication technology etc.

General Information

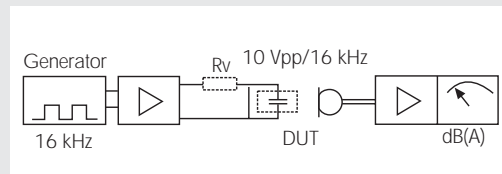
Availability: LN capacitors according to the data sheet are available as of now in production quantities.

Price indication: Prices for these special capacitors will be 20 % to 30 % higher than those of conventional Polyester capacitors.

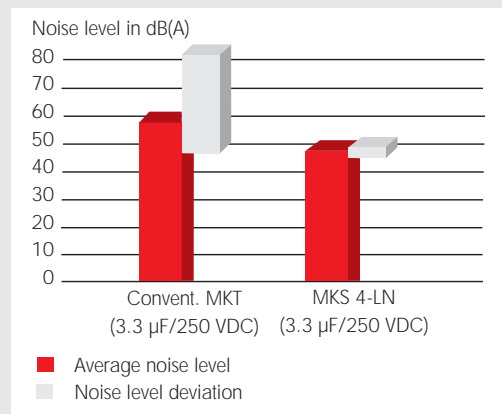
Sampling: Samples are available as of now.



Set-up to measure
sound level in dB(A).



Circuit to measure
sound level in dB(A).



Range of sound level values.