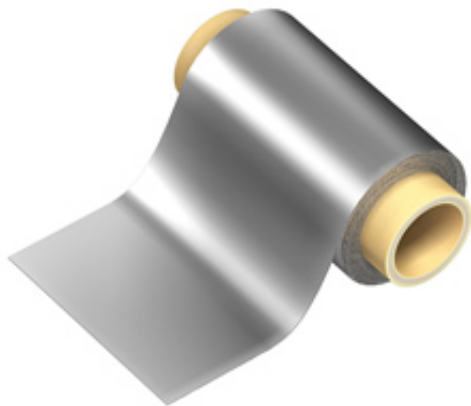


Ultra-thin noise suppression sheets with the world's highest permeability

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TDK Corporation presents the ultra-thin IFL16 noise suppression sheet: The sheet has a thickness of just 0.03 mm or 0.05 mm, depending on type, making it 20 percent thinner than existing sheets with the same performance. At this thickness the new material offers the world's highest magnetic permeability of $220 \mu'$ at 1 MHz (typ.). IFL16 is designed for a temperature range of between -40°C and $+85^\circ\text{C}$ and is suitable for the frequency range from 0.5 MHz to 1000 MHz. The standard size of the sheet is 300 mm x 200 mm. The sheet can also be supplied on a roll (300 mm x 100 m). The new sheet extends the existing TDK product spectrum of noise suppression sheets of types IFL10M and IFL12. Volume production will start in September 2015.

Development of smartphones and other mobile devices is still focused on the miniaturization of the individual components, while the range of functions increases. Apart from a PCB layout that supports EMC, adequate additional shielding of the devices is playing an increasingly important role. Noise suppression sheets such as the new ultra-thin IFL16 are a space-saving answer to this requirement. They can prevent emitted interference from penetrating the device or can prevent reflections created within the [device](#) from affecting the function of other devices.

A growing number of devices use a stylus pen for input, which works on the principle of magnetic induction. In order to improve sensitivity, these devices use magnetic films for the inductive sensor unit of the display. This simultaneously demands both a high level of magnetic permeability and a very thin film. On the basis of its substantial competence regarding materials and technology, TDK is offering attractive solutions for such applications with its new IFL16 foil.



Provided by TDK Corporation

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