

IFM10M Series

Flexield—Noise Suppression Sheet (Magnetic Layer + Copper Layer)

TDK's IFM10M series noise suppression sheets consist of a magnetic layer and an ultra-thin copper-clad laminated layer enabling high magnetic permeability. The IFM10M sheets are 60 percent thinner than existing magnetic sheets and offer equivalent noise suppression performance over a broad frequency range of 500kHz to 10GHz. The copper layer is 1 μ m thick resulting in the total thickness of the new Flexield product of just 0.04mm.

The design of the ultra-thin copper-cladding is based on plating process technology developed by Achilles Corporation. Thanks to this technology, the IFM10M sheets maintain a low profile and no longer require a layer of double-sided tape, making the sheets ideal for height restrictive applications such as smartphones, tablets, notebooks, and stylus pens.



High Loss

Hybrid

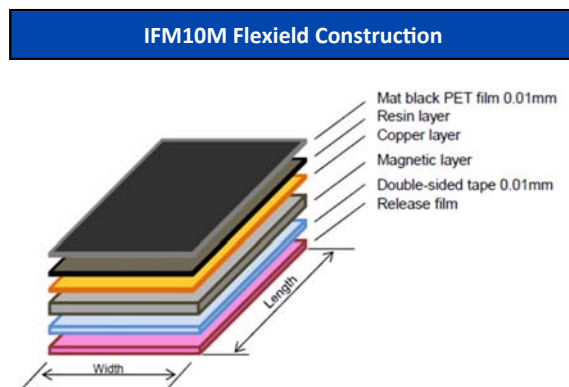
Features

- Noise suppression frequency range: 500kHz to 10GHz
- High magnetic permeability of 100 μ' (typical) @ 1MHz
- 60 percent thinner than existing magnetic sheets with an equivalent performance
- Ultra-thin copper cladding of just 1 μ m
- Flexible sheet (300mm x 200mm dimensions)
- RoHS compliant

Applications

Noise suppression for electronic devices including, but not limited to:

- Mobile devices, TV, monitor, DVD recorder, PC, HDD
- Wearable devices, routers, gaming equipment, stylus pens



Part Number Information

IFM	10M	-	025	B	B	300	X	200
Series name	Material symbol		Magnetic layer thickness (mm)	Surface film thickness (mm)	Double-sided tape thickness (mm)	Length (mm)		Width (mm)
IFM	10M		025 0.025	B 0.01	B 0.01	300 300		200 200

Series	Magnetic Permeability [μ'] at 1MHz	Frequency Range [MHz]	Standard Size [mm]	Thickness [mm]
IFM10M	100 (typ.)	0.5 to 10,000	300 x 200	0.04