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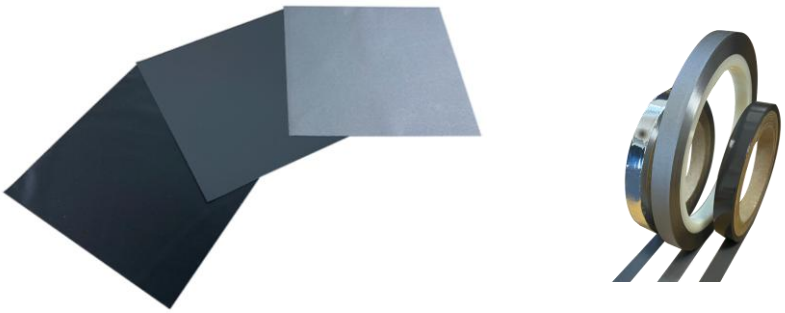
Within, the Future

News Release

February 26, 2026
Maxell, Ltd.

Samples of EMC countermeasure components for high-frequency bands to be shipped from April 2026

Contributing to noise suppression around cables, ICs, circuit boards, and connectors used in electronic devices



Magnetic Noise Suppression Film "M Type" (Left: Sheet form / Right: Tape form)

Maxell, Ltd. (President and Representative Director: Keiji Nakamura; hereinafter "Maxell") will begin shipping samples for functionality evaluation of the "M Type (Magnetic Type)" (hereinafter "M Type"), which has been developed as EMC countermeasure components for high-frequency bands. Samples will be available in April 2026.

In recent years, there have been an increasing number of cases where noises emitted from electronic devices and connecting cables have affected the normal operation of devices and wireless communications. Particularly, as the frequency bands utilized expand from the megahertz range to the gigahertz range, the importance of high-frequency noise countermeasures is growing. Maxell has been developing next-generation EMC countermeasure components by utilizing magnetic material development technology, fine particle dispersion technology, high-precision coating technology, and lamination process technology that have been cultivated since its founding through magnetic tapes such as cassette tapes and computer tapes.

"M Type" is a magnetic noise suppression thin film that utilizes magnetic powder dispersion technology and wet coating technology and is compatible with high frequency bands from several hundred megahertz to several tens of gigahertz. It contributes to the suppression of noise generated around noise sources such as cables, ICs, circuit boards, and connectors used in electronic devices such as PCs and smartphones, medical equipment, communication devices, and automotive electronic systems.

The samples will be available for functionality evaluation purposes, with customization options for frequency bands, shapes (sheet/tape), widths, lengths, and more. “M Type” achieves both magnetic noise suppression and a thin, lightweight design. Through coating film design and coating processing technology that reduces cracking and powder shedding during bending, it possesses flexibility capable of withstanding bending to a diameter of 1 millimeter with a thickness of approximately 60 micrometers. In addition, it is possible to further improve electric field shielding performance by combining it with a metal film.

Maxell will continue to provide solutions that support an advanced information society through the development of EMC countermeasure components that leverage its long-standing knowledge of magnetic materials and its unique “Analog Core Technologies,” such as fine particle mixing/dispersion technology and fine coating technology.

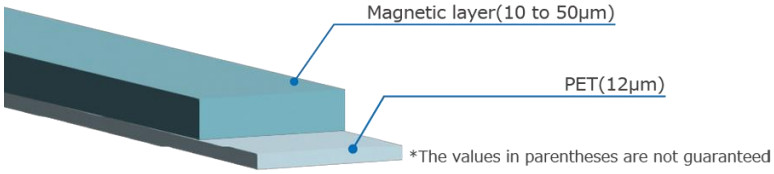
EMC Countermeasure Components webpage
https://biz.maxell.com/en/functional_materials/emc.html

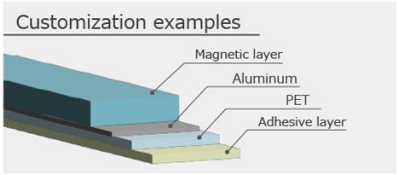
Trademarks

Contacts
New Business Producing Division Div., Maxell, Ltd.
https://biz.maxell.com/en/functional_materials/inquiry_form_input1.html

Appendix

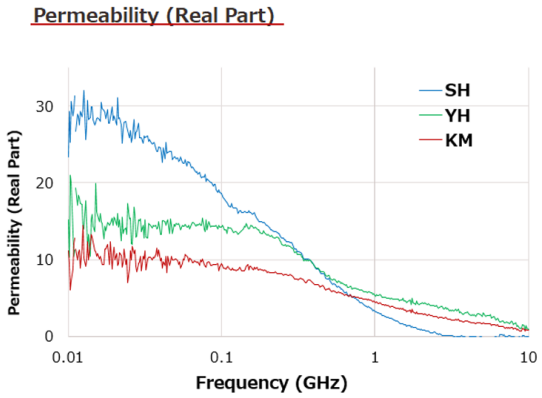
“M Type” Product Structure and Customization Examples

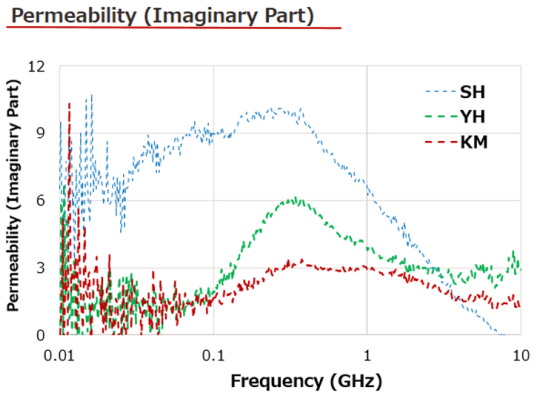




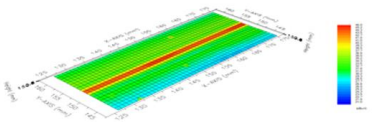
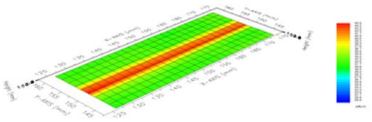
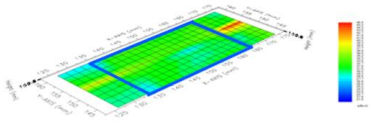
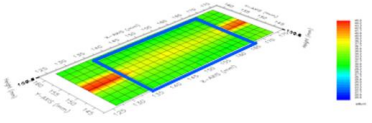
Frequency Band Lineup and Permeability Characteristics

Lineup of three types: “SH”, “YH”, and “KM” is available according to the frequency band to be suppressed.





Noise Suppression Effect from Microstrip Line Radiation*1

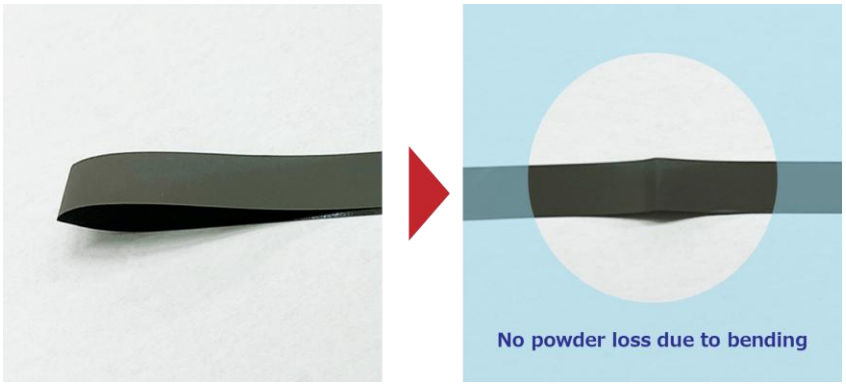
	Magnetic Field Noise (1–3 GHz)	Electric Field Noise (1–3 GHz)
No Noise Countermeasures		
M Type*2 Base: Aluminum vapor deposition PET		

: Noise Suppression Film Attachment Position

*1 Noise Suppression Effect from Microstrip Line Radiation： Measured with PERITEC Corporation’s EMI tester.
*2 M Type： The data shown is for a customized composite film sheet specification using aluminum vapor-deposited PET film as the base material.

Bending Resistance (Flexibility)

The photo shows an example of bending the “KM” type (bending to a diameter of 1 millimeter with a thickness of approximately 60 micrometers).



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