



Noise suppression sheets

Flexield

IFM

series Hybrid type (magnetic layer+copper layer)

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

 **REMINDERS**

- When mounting on live electrical parts directly, there is a fear that an insulation accident is caused, so please consider on the design in case of use.
- There is a fear that sullenness of double sided adhesive tape occurs, so please refrain from the use to a part where you wind repeatedly by which it's for the hinge part.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, OA equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. As range of catalog, conditions are transcended, or for damage that generated by was used in application specific, etc, accept no the responsibility, wish.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for automotive-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Noise suppression sheets

Product compatible with RoHS directive
Halogen-free

Flexield

Overview of IFM series Hybrid type (magnetic layer+copper layer)

FEATURES

- In addition to the magnetic loss effect by a magnetic layer, the noise control effect by a conduction layer is demonstrated.
- Has flexibility , it does not crack by impact or the like .
- It excels in shape processability and can respond to various dimensions and shapes.

APPLICATION


- Electromagnetic noise measures of various kinds of electronic equipment
- Receiver sensitivity improvement of PEN input (inductive coupling type)
- Performance improvement of RFID (on metal correspondence)

STANDARD PART NUMBER LIST

| Magnetic sheet material | Magnetic layer thickness (mm) | Sheet dimensions (mm) |
|-------------------------|-------------------------------|-----------------------|
| IFM10M | 0.025 | 300x200 |



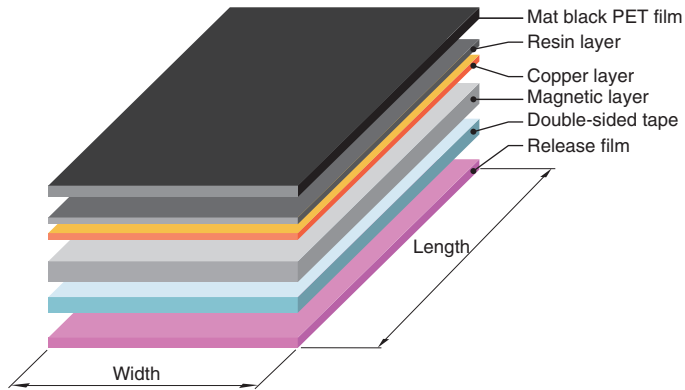
- RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/info/en/environment/rohs/index.html>
- Halogen-free: indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

 Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

IFM series Hybrid type (magnetic layer+copper layer)

■ PART NUMBER CONSTRUCTION

| | | | | | | | | | |
|-------------|-----------------|-------------------------------|-------|-----------------------------|------|----------------------------------|------|-------------|------------|
| IFM | 10M | - | 025 | B | B | 300 | × | 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 | 200 |
| | | | | | | | | 300 | 200 |



■ STANDARD PART NUMBER LIST

| Material name | Standard dimensions (mm) | Magnetic layer thickness (mm) | Product total thickness (mm) | Part No. |
|---------------|--------------------------|-------------------------------|------------------------------|---------------------|
| IFM10M | 300×200 | 0.025 | 0.05 | IFM10M-025BB300X200 |

IFM series Hybrid type (magnetic layer+copper layer)

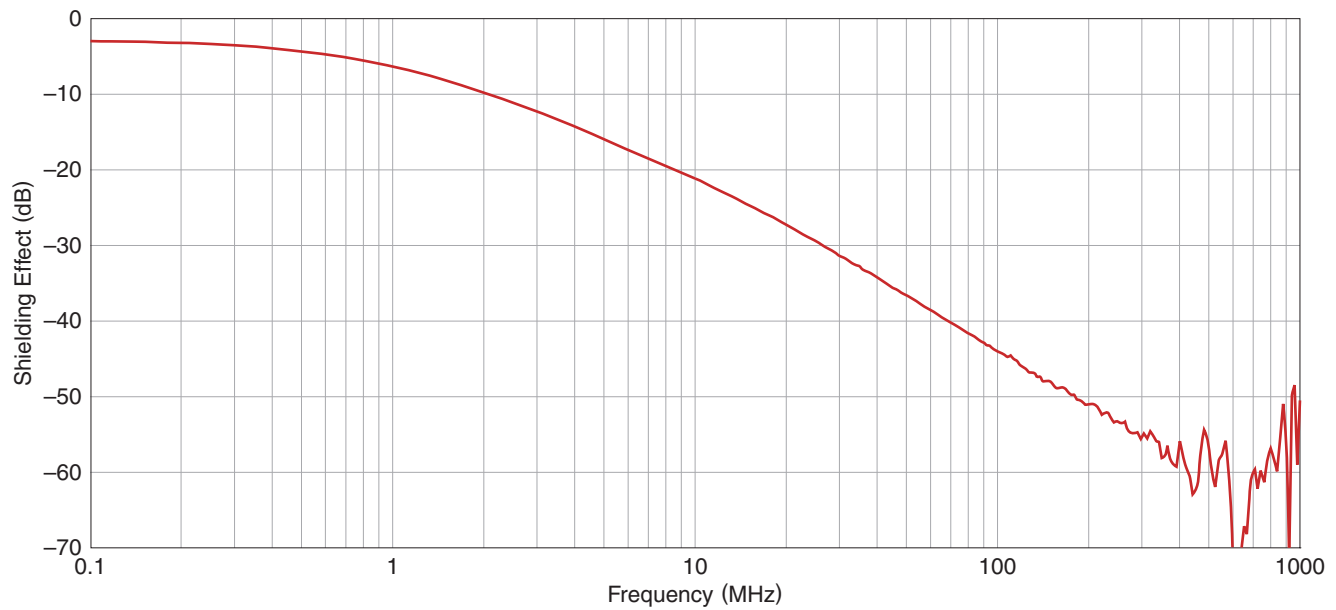
■ MATERIAL CHARACTERISTIC

□ MATERIAL CHARACTERISTIC SPECIFICATION TABLE*

| Material name | Recommended frequency range | Relative permeability (at 1MHz) | Operating temperature range (°C) |
|---------------|-----------------------------|---------------------------------|----------------------------------|
| IFM10M | 0.5MHz to 10GHz | 120 | -40 to +85 |

* Material property is value of magnetic layer.

□ SHIELD EFFECT



Measurement setup

