



Feb. 2024 Ver.1  
TDK Corporation

Noise Suppression Sheets  
- Flexield -

Series name

**IPM01**

## IPM01

### ■ FEATURES

- Ultra-thin EMC noise suppression sheet
- Wide frequency band 10kHz ~ 10GHz
- Hybrid sheet of permalloy magnetic layer and metal layer
- High magnetic performance from low frequency band 10kHz ~
- High magnetic saturation

### ■ APPLICATION

- Noise suppression sheet placed inside electronic device
- Noise shielding for control unit
- Wrap around power cable / power line
- EM field reduction for EMC human exposure

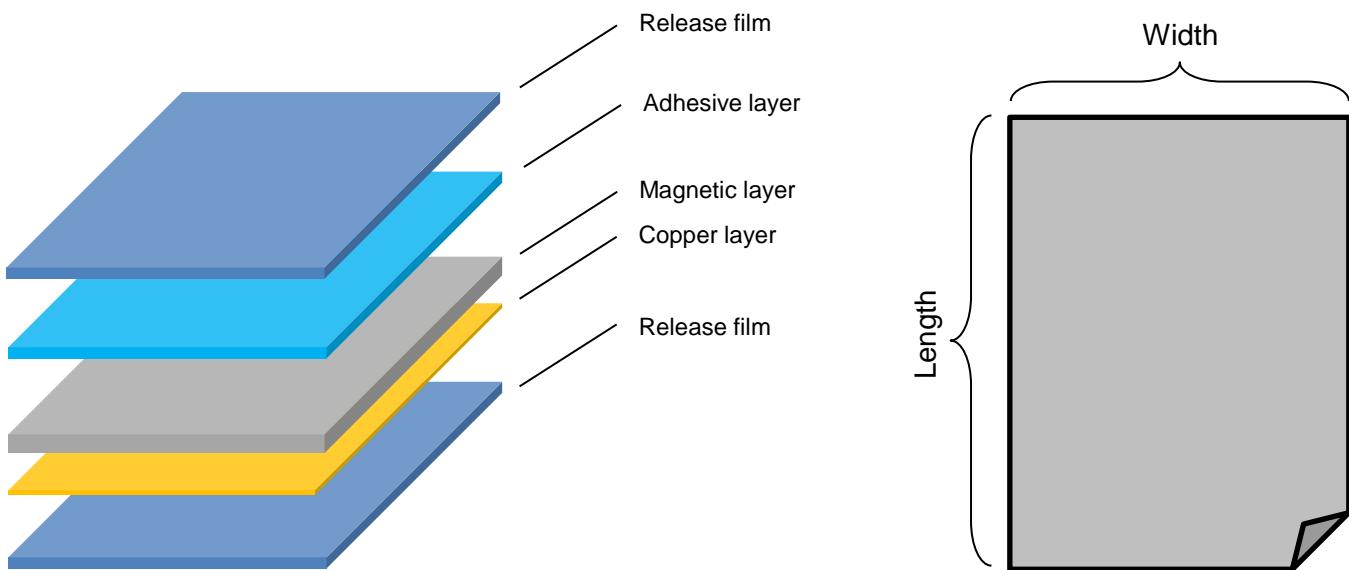
### ■ STANDARD SHAPE LIST

Material name	Magnetic and Metal layer thickness (mm)	Sheet dimensions	
		Length (mm)	Width (mm)
IPM01	0.006	300	200



**IPM01****■ PART NUMBER CONSTRUCTION**

IPM	01	-	003	R	Q	300	X	200
Series name	Material symbol		Magnetic layer thickness (mm)	Top surface layer thickness (mm)	Double-sided adhesive tape thickness (mm)	Length		Width
IPM	01		003   0.003	R   Release film	Q   0.015	300   300		200   200

**■ STANDARD PART NUMBER LIST**

Material name	Part number	Sheet dimensions		Magnetic and Metal layer thickness (mm) <span style="color:red">(Typical)</span>
		Length (mm)	Width (mm)	
IPM01	IPM01-003RQ300X200	300	200	0.006

## IPM01

### ■ MATERIAL CHARACTERISTIC

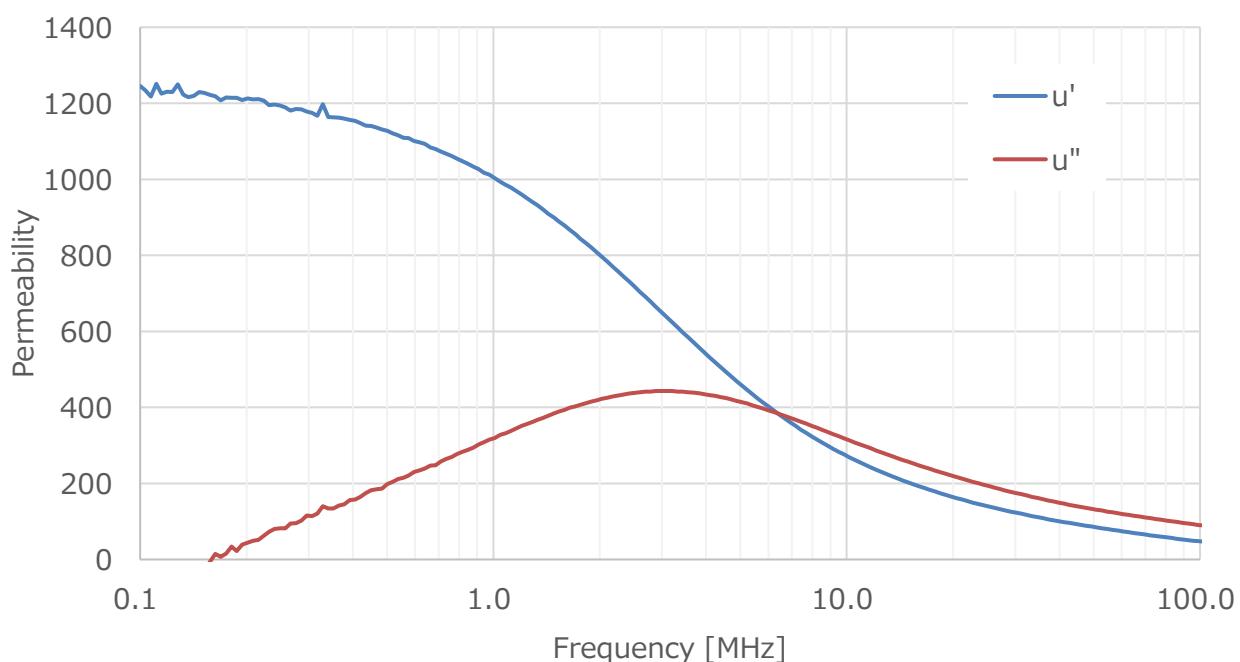
#### Material Characteristic Table

(Typical)

Material	Recommended specification frequency range	Relative permeability [at 1MHz]		Operating temperature[°C]
		u'	u''	
IPM01	10kHz to 10GHz	>700	300(Ref)	-40 to +85

#### Relative Permeability

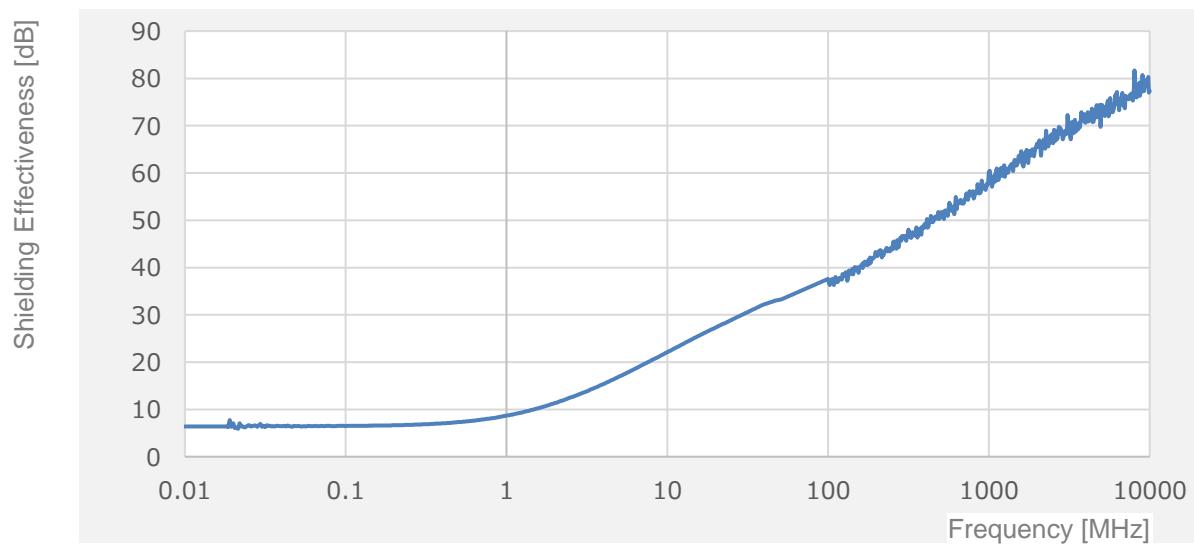
Frequency vs Permeability



## IPM01

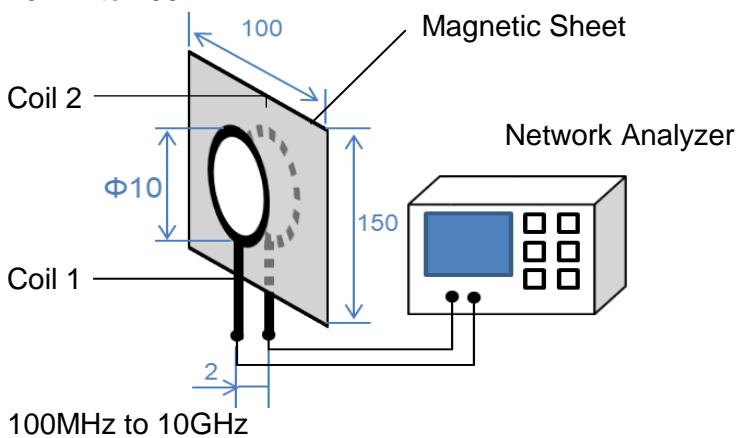
### ■ MATERIAL CHARACTERISTIC

#### SHIELDING EFFECTIVENESS (10kHz to 10GHz)

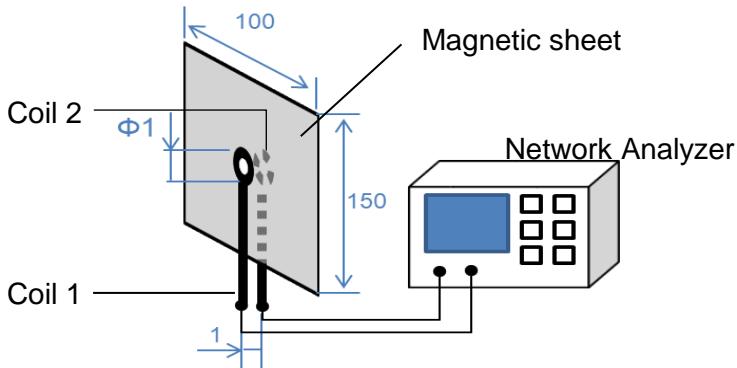


#### MEASUREMENT SETUP

10kHz to 100MHz



100MHz to 10GHz



## 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 these products.

#### REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV 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.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

1. Aerospace/aviation equipment
2. Transportation equipment (cars, electric trains, ships, etc.)
3. Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2)
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 general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.