



# Noise Suppression Sheets

Flexield





#### 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

- 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, 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. When the damage occurs by having been used 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 understand that the responsibility cannot be taken.
  - (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 using these products in general purposes and standard use, it is recommended that protection circuits are used, devices are secured, and backup circuits are kept for increased safety.



# **Noise Suppression Sheets** Flexield

Product compatible with RoHS directive Halogen-free

## **Overview of IFL Series**

#### **FEATURES**

- O High permeability items are lined up.
- Olt's also possible to load on a little gap because it's thin type.
- O Has flexibility, it does not crack by impact or the like.
- Olt excels in shape processability and can respond to various dimensions and shapes.
- Offer by a roll shape is possible.

#### APPLICATION

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

#### STANDARD SHAPE LIST

Material	Thickness	Sheet dimensions	Roll			
	(mm)		Width (mm)	Length (m)		
IFL10M	0.025 0.05 0.1 0.2	300×200	300	100		
IFL12	0.05 0.1 0.2	300×200	300	100		
IFL16	0.03 0.05	300×200	300	100		





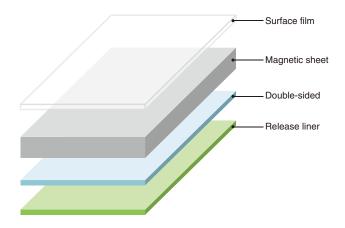
- RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/
- O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.

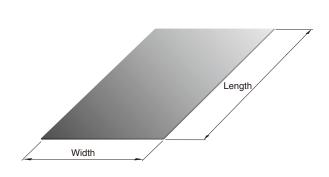


## **IFL Series Sheet Type**

#### **■ PART NUMBER CONSTRUCTION**

ı	IFL	10M	0	25	N		В		300		×	20	00
											i		
	Series name	Material symbol	thic	c material kness nm)	th			Double-sided tape thickness (mm)		Length (mm)		Wid (m	dth m)
-		10M	025	0.025	N	No	N	No	300	300		200	200
		12	030	0.03	Р	0.016	В	0.01					
		16	050	0.05	R	0.038	D	0.03					
			100	0.10	R: Rele	ase type							
			200	0.20									





#### **STANDARD PART NUMBER LIST**

Material	Standard dimensionss (mm)	Thickness	Part number
IFL10M		0.025	IFL10M-025NB300×200
	300×200	0.05	IFL10M-050NB300×200
		0.1	IFL10M-100NB300×200
		0.2	IFL10M-200ND300×200
		0.05	IFL12-050NB300×200
IFL12	300×200	0.1	IFL12-100NB300×200
		0.2	IFL12-200ND300×200
IFL16	300×200	0.03	IFL16-030NB300X200
	300x200	0.05	IFL16-050NB300X200

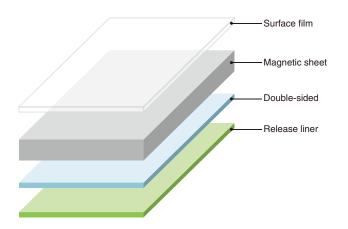


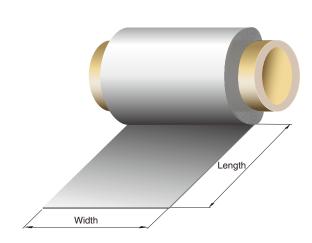


# **IFL Series Roll Type**

#### **■ PART NUMBER CONSTRUCTION**

IFL	10M	0	25		R	1	N	11	HR	×	30	00
Series name	Material symbol	thic	c material kness nm)	Surface film thickness (mm)		Double-sided tape thickness (mm)		Length (m)			Wid (m	
_	10M	025	0.025	N	No	N	No	1HR	100	-	300	300
	12	030	0.03	Р	0.016	В	0.01			-		
	16	050	0.05	R	0.038	D	0.03					
		100	0.10	R: Rele	ase type							





#### **STANDARD PART NUMBER LIST**

Material	Width (mm)	Length (m)	Thickness (mm)	Part number
IFL10M			0.025	IFL10M-025RN1HRX300
	300	100	0.05	IFL10M-050RN1HRX300
			0.1	IFL10M-100RN1HRX300
IFL12	300	100	0.05	IFL12-050RN1HRX300
		100	0.1	IFL12-100RN1HRX300
IFL16	300	100	0.03	IFL16-030RN1HRX300
	300	100	0.05	IFL16-050RN1HRX300



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.



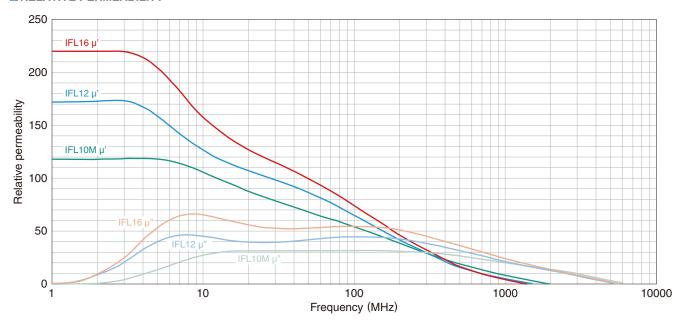
### **IFL Series**

#### ■ MATERIAL CHARACTERISTIC

#### **MATERIAL CHARACTERISTIC SPECIFICATION TABLE**

Material name	Recommended specification frequency range	Relative permeability (at 1MHz)	Surface resistivity ( $\Omega$ /sq.)min	Thermal conductivity (W/m • K)	Operating temperature range (°C)
IFL10M	10 MHz to 3 GHz	120	1M	1.5	-40 to +85
IFL12	5 MHz to 3 GHz	180	10k	1.5	-40 to +85
IFL16	0.5 MHz to 1 GHz	220	10k	1.5	-40 to +85

#### **□ RELATIVE PERMEABILITY**



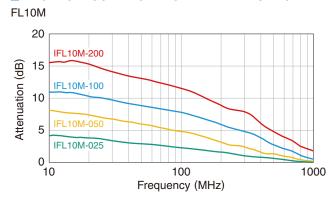
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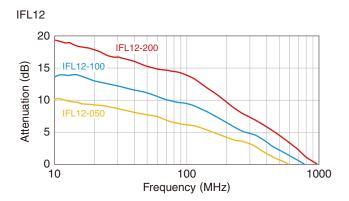


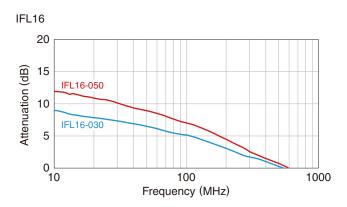
### **IFL Series**

#### ■ MATERIAL CHARACTERISTIC

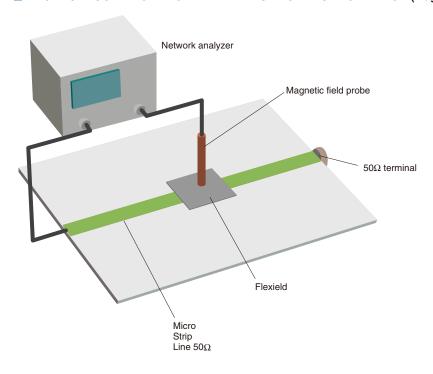
#### **■ NEIGHBORHOOD MAGNETIC FIELD ATTENUATION**







#### □ NEIGHBORHOOD MAGNETIC FIELD ATTENUATION TESTING METHOD (Magnetic field measurement on the microstrip line)



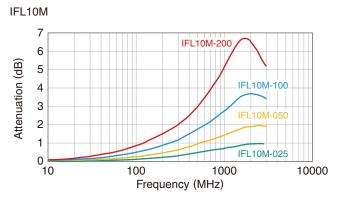
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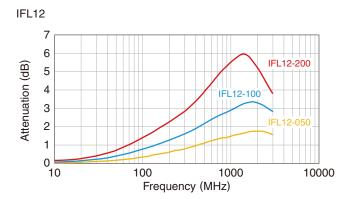


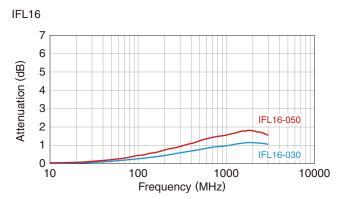
### **IFL Series**

#### ■ MATERIAL CHARACTERISTIC

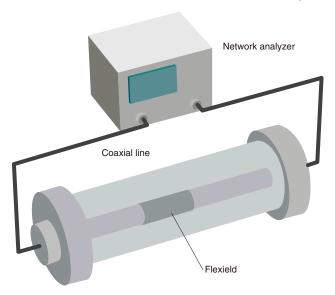
#### **□TRANSMISSION ATTENUATION**







#### ☐ TRANSMISSION ATTENUATION TESTING METHOD (Transmission measurement in a coaxial track)



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