



Magnetic Sheets for RFID

Flexield

IFL/IBF series

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	(8) Public information-processing equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)	(9) Military equipment
(3) Medical equipment	(10) Electric heating apparatus, burning equipment
(4) Power-generation control equipment	(11) Disaster prevention/crime prevention equipment
(5) Atomic energy-related equipment	(12) Safety equipment
(6) Seabed equipment	(13) Other applications that are not considered general-purpose applications
(7) Transportation control equipment	

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.

Magnetic Sheets for RFID

Product compatible with RoHS directive

Flexield

Overview of IFL/IBF Series

FEATURES

- High permeability, low magnetic loss (13.56MHz).
- It's also possible to load on a little gap because it's thin type.
- Has flexibility , it does not crack by impact or the like .
- Offer by a roll shape is possible (IFL04).

APPLICATION

- For improving reception performance in RFID reader/writers.
- Integrate IC cards with metal.
- Integrate IC tags with metal.
- Improved antenna reception sensitivity.

STANDARD SHAPE LIST

Material	Thickness (mm)	Sheet dimensions (mm)	Roll	
			Width (mm)	Length (m)
IFL04	0.05	300×200	300	100
	0.1			
	0.2			
IBF15	0.1	125×125	—	—
	0.18			

IFL



Sheet

IBF




Roll



Sheet

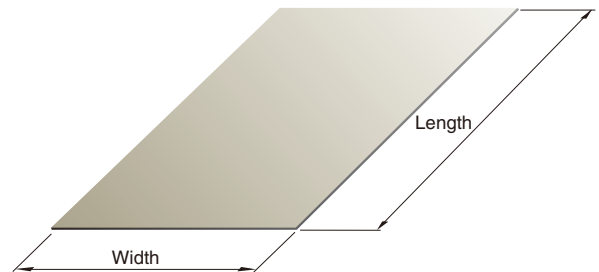
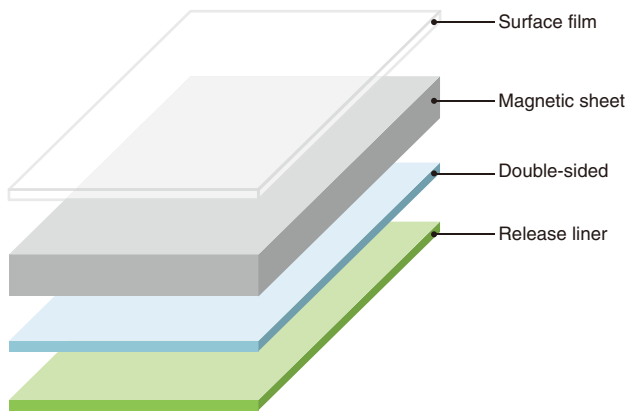
RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>

 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 Sheet Type

■ PART NUMBER CONSTRUCTION

IFL	04	050	N		B		300	×	200		
Series name	Material symbol	Magnetic material thickness (mm)		Surface film thickness (mm)		Double-sided tape thickness (mm)		Length (mm)		Width (mm)	
	04	050	0.05	N	No	N	No	300	300	200	200
		100	0.10	R	0.038	B	0.01				
		200	0.20	R: Release type		D	0.03				



■ STANDARD PART NUMBER LIST

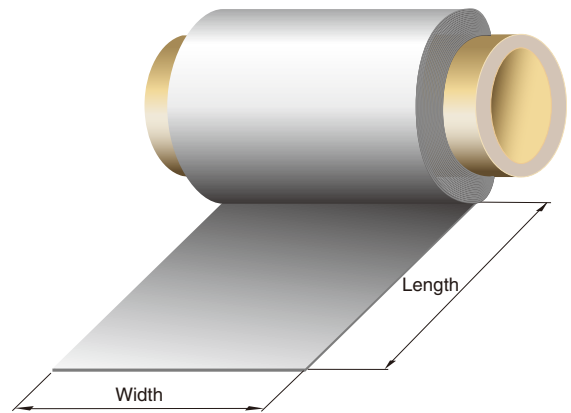
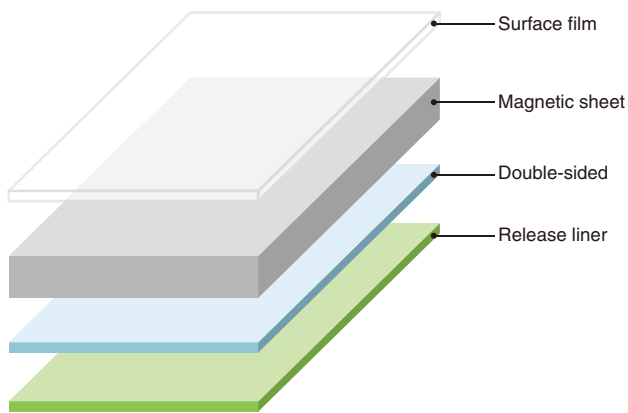
Material	Standard dimensions (mm)	Thickness	Part number
IFL04	300×200	0.05	IFL04-050NB300×200
		0.1	IFL04-100NB300×200
		0.2	IFL04-200ND300×200



IFL Series Roll Type

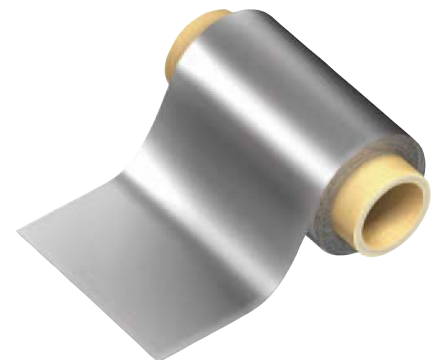
■ PART NUMBER CONSTRUCTION

IFL	04	050		R		N		1HR		×	300	
Series name	Material symbol	Magnetic material thickness (mm)		Surface film thickness (mm)		Double-sided tape thickness (mm)		Length (m)			Width (mm)	
	04	050	0.05	N	No	N	No	1HR	100		300	300
		100	0.10	R	0.038	B	0.01					
				R: Release type		D	0.03					



■ STANDARD PART NUMBER LIST

Material	Width (mm)	Length (m)	Thickness (mm)	Part number
IFL04	300	100	0.05	IFL04-050RN1HRX300
			0.1	IFL04-100RN1HRX300



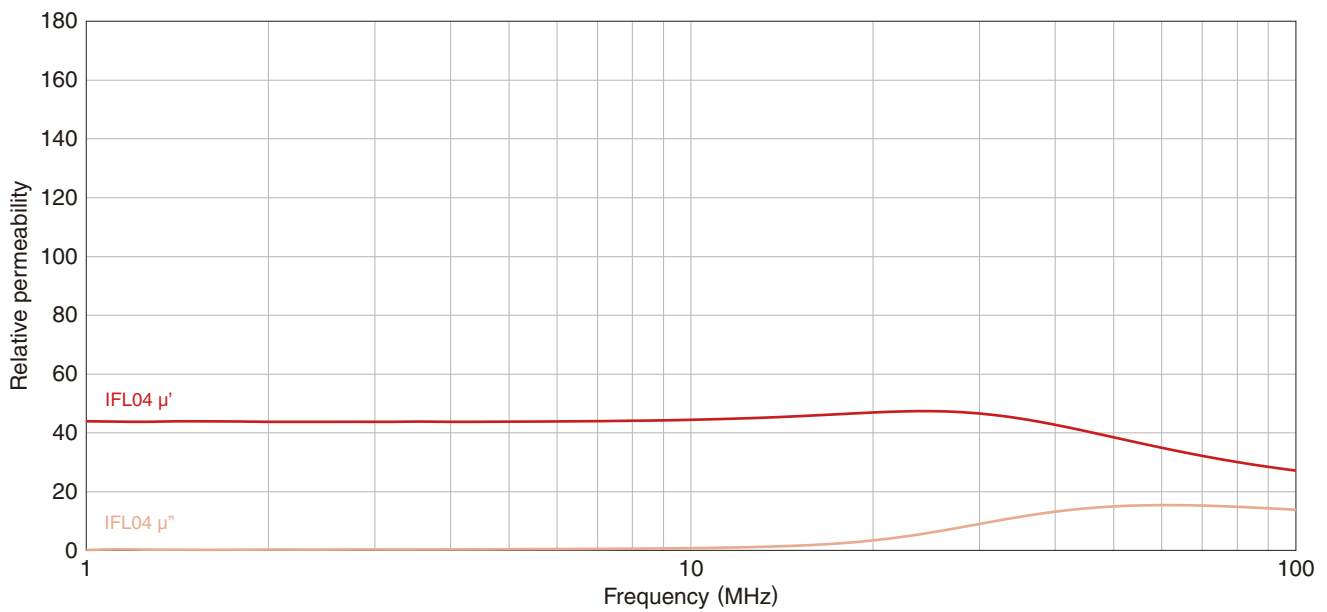
IFL Series

■ MATERIAL CHARACTERISTIC

□ MATERIAL CHARACTERISTIC SPECIFICATION TABLE

Material name	Relative permeability μ' [at 13.56MHz] typ.	Relative permeability μ'' [at 13.56MHz] typ.	Surface resistivity (Ω /sq.)min	Thermal conductivity (W/m · K)	Operating temperature range (°C)
IFL04	45	1.3	10k	1.5	-40 to +85

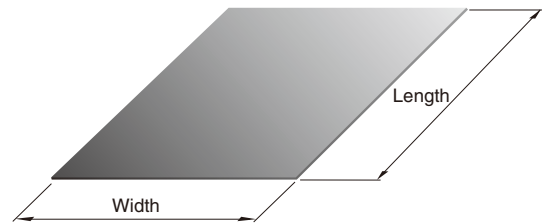
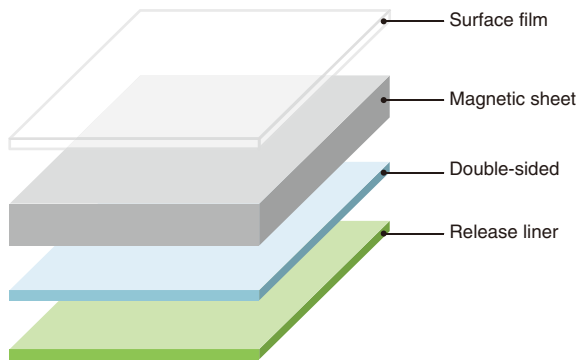
□ RELATIVE PERMEABILITY



IBF Series

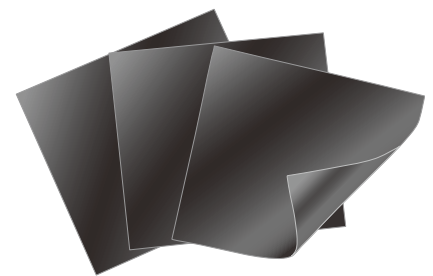
MATERIAL CHARACTERISTIC

IBF	15	100	D		D		125	×	125		
Series name	Material symbol	Magnetic material thickness (mm)		Surface film thickness (mm)		Double-sided tape thickness (mm)		Length (m)		Width (mm)	
	15	100	0.10	D	0.03	D	0.03	125	125	125	125
		180	0.18								



STANDARD PART NUMBER LIST

Material	Standard dimensions (mm)	Thickness (mm)	Part number
IBF15	125×125	0.1	IBF15-100DD125X125
		0.18	IBF15-180DD125X125



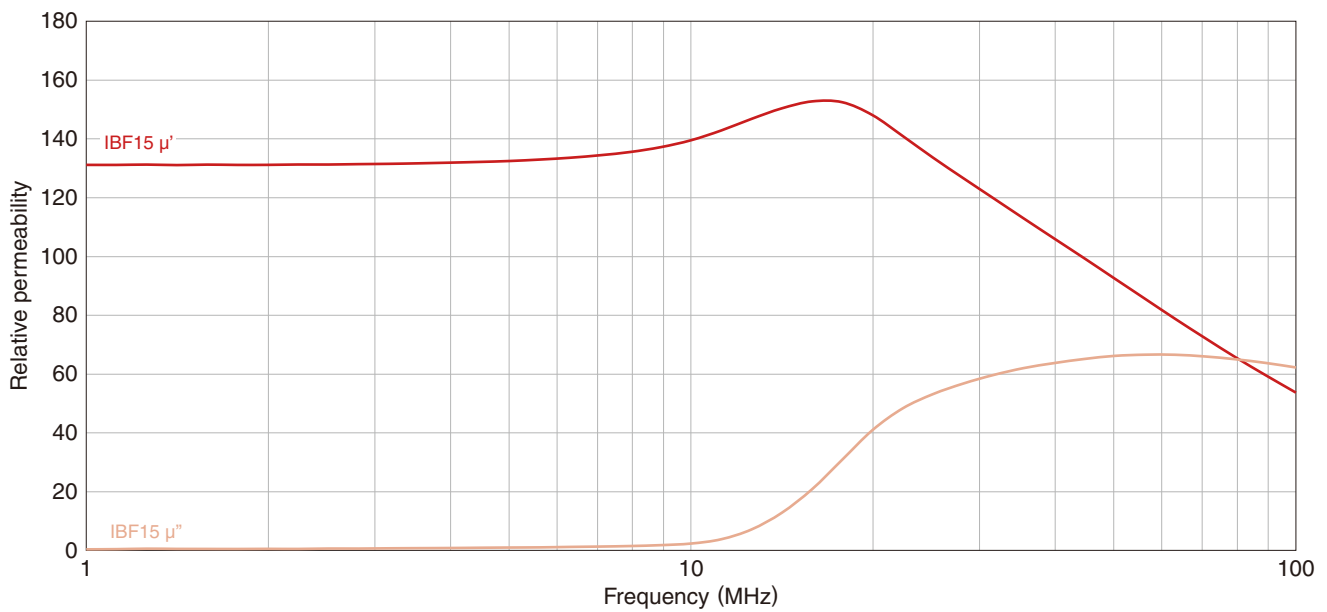
IBF Series

■ MATERIAL CHARACTERISTIC

□ MATERIAL CHARACTERISTIC SPECIFICATION TABLE

Material name	Relative permeability μ' [at 13.56MHz] typ.	Relative permeability μ'' [at 13.56MHz] typ.	Surface resistivity (Ω /sq.)min	Thermal conductivity (W/m · K)	Operating temperature range (°C)
IBF15	150	5	1G	—	-40 to +85

□ RELATIVE PERMEABILITY



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