Magnetic Sheets for RFID
Flexield
IFQ series

RoHS | REACH | Halogen Free | Lead Free

IFQ06

Product Portal | Search | Selection Guide | Tech Note

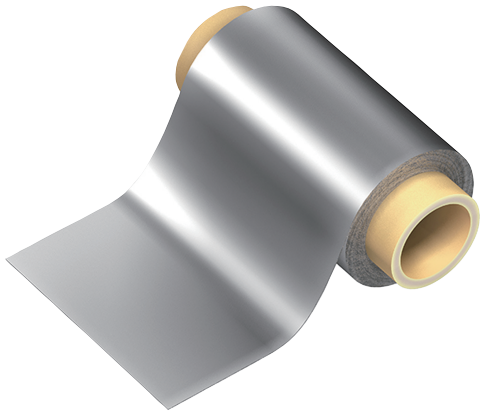
FEATURES

- High permeability (μ') and low magnetic loss (μ'') materials up to 13.56MHz
- High flexibility which allows sheets to easily be formed to desired shape
- High quality factor (Q)
- Protects system from metal objects located directly behind coils
- Available on a roll or in sheet form

STANDARD SHAPE LIST

Material name	Magnetic layer thickness (mm)	Sheet dimensions (mm)	Roll dimensions	
			Width (mm)	Length (m)
IFQ06	0.050	300X200	300	100
	0.100			
	0.200		Non-STD *	Non-STD *

* Please contact us for details





RoHS Directive Compliant Product: See the following for more details. https://product.tdk.com/en/environment/rohs/index.html

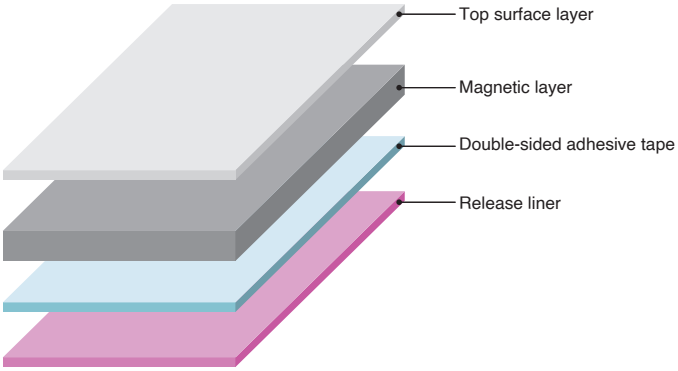
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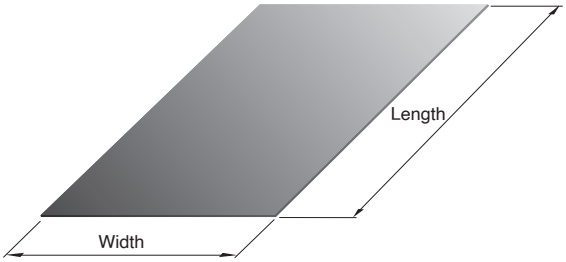
IFQ06 Sheet Type

PART NUMBER CONSTRUCTION

IFQ06 - 050 N B 300 x 200

Material name	Magnetic layer thickness (mm)		Top surface layer thickness (mm)		Double-sided adhesive tape thickness (mm)		Length (mm)		Width (mm)	
IFQ06	050	0.050	N	No	B	0.010	300	300	200	200
	100	0.100			D	0.030				
	200	0.200								





STANDARD SHAPE LIST

Material name	Sheet dimensions (mm)	Magnetic layer thickness (mm)	Total thickness (mm)typ.	Part No.
IFQ06	300X200	0.050	0.060	IFQ06-050NB300X200
		0.100	0.110	IFQ06-100NB300X200
		0.200	0.240	IFQ06-200ND300X200

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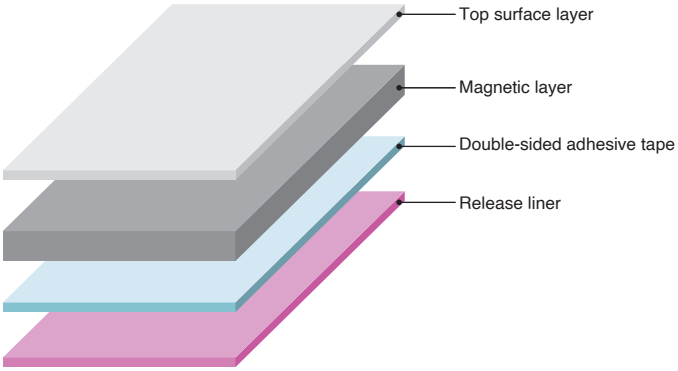
IFQ06 Roll Type

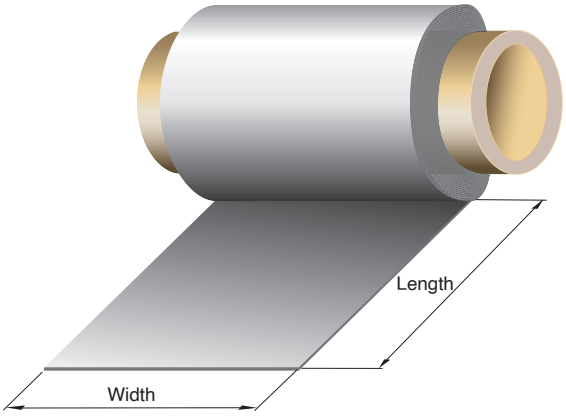
PART NUMBER CONSTRUCTION

IFQ06	-	050	N	B	1HR	x	300
Material name		Magnetic layer thickness (mm)	Top surface layer thickness (mm)	Double-sided adhesive tape thickness (mm)	Length (m)		Width (mm)

Material name	Magnetic layer thickness (mm)		Top surface layer thickness (mm)		Double-sided adhesive tape thickness (mm)		Length (m)		Width (mm)	
IFQ06	050	0.050	N	No	N	No	1HR	100	300	300
	100	0.100	R *	0.038	B	0.010				

* Release type





STANDARD SHAPE LIST

Material name	Roll dimensions		Magnetic layer thickness (mm)	Total thickness (mm)typ.	Part No.
	Width (mm)	Length (m)			
IFQ06	300	100	0.050	0.088 *	IFQ06-050RN1HRX300
			0.100	0.138 *	IFQ06-100RN1HRX300
			0.050	0.060	IFQ06-050NB1HRX300
			0.100	0.110	IFQ06-100NB1HRX300

* Including top surface layer

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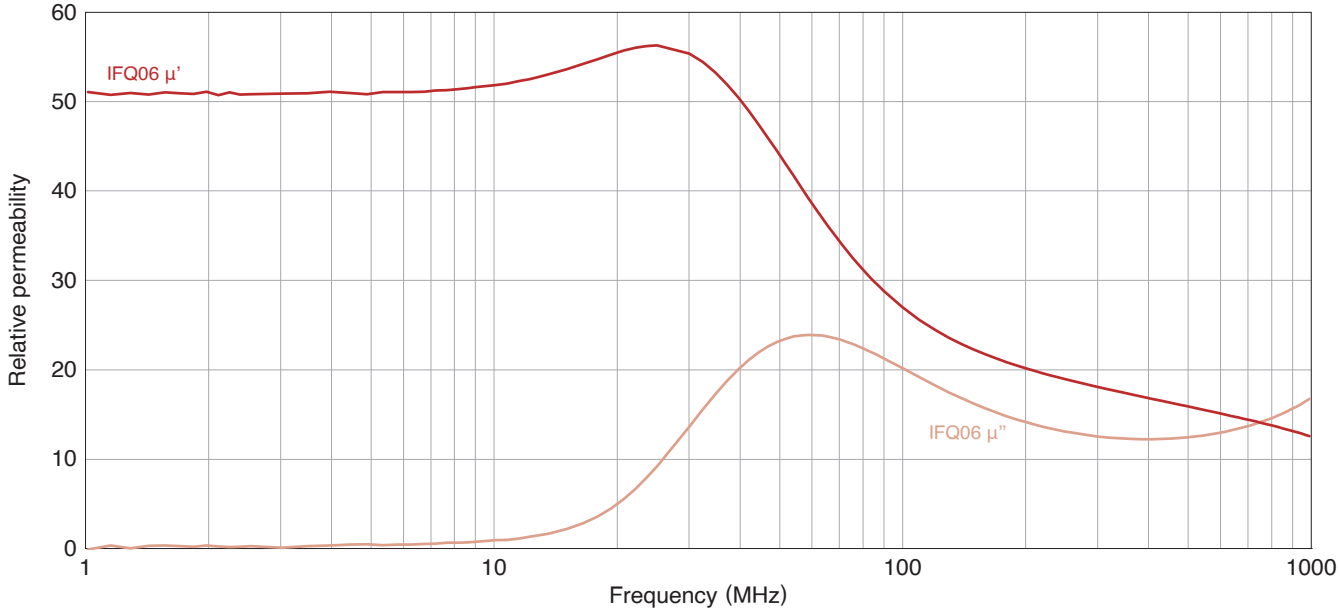
IFQ06

MATERIAL CHARACTERISTIC

MATERIAL CHARACTERISTIC SPECIFICATION TABLE

Material name	Relative permeability [at 13.56MHz]			Surface resistivity	Thermal conductivity	Saturated magnetic flux density	Relative Permittivity	Relative Permittivity	Operating temperature
	u'	u''	u'/u''	(Ω/sq.)typ.	(W/m・K)	(mT)	(°C)	(at 1MHz)typ.	(°C)
IFQ06	56	2	28	10M	1.5	150	> 500	1500	-40 to +85

RELATIVE PERMEABILITY



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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

○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.

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