

Sep. 2024 Ver.5.0 TDK Corporation

Magnetic Sheet for RFID - Flexield -

Series name

IFL (Normal)

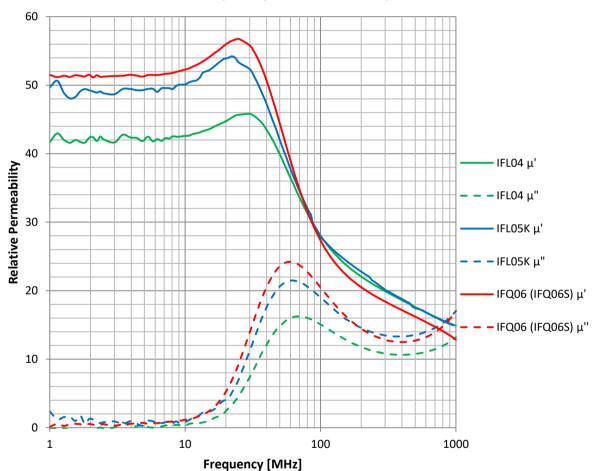
<u>IFQ (High-μ)</u>

IFW (Two layers)

IBQ (Ferrite sheet)

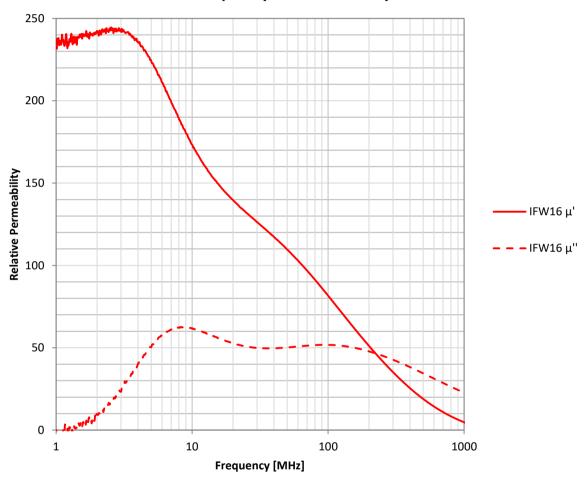
Material characteristic (IFL,IFQ series)

Material name	Relative permeability (at 13.56MHz) typ.	Surface resistivity (Ω/sq.)min	Thermal conductivity (W/m•K)	Operating temperature (°C)
IFL04	μ'/μ"=45/1.3	6M	1.5	-40 to +85
IFL05K	μ'/μ"=50/2.0	6M	1.5	-40 to +85
IFQ06	μ'/μ"=56/2.0	10M	1.5	-40 to +85
IFQ06S	μ'/μ"=56/2.0	10M	1.5	-40 to +125



Frequency vs. Permeability

Material name	Relative permeability (at 13.56MHz) typ.	Surface resistivity (Ω/sq.)min		Operating temperature (°C)
IFW16	μ'/μ"=160/60	10K	1.5	-40 to +85

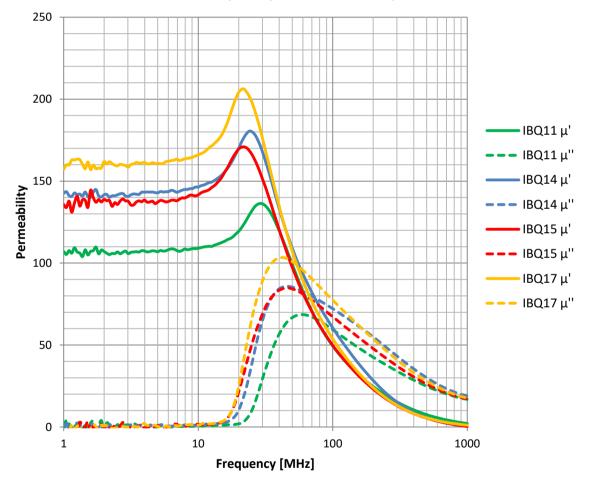


Frequency vs. Permeability

Material characteristic (IFQ series)

Material name	Relative permeability (at 13.56MHz) typ.	Surface resistivity (Ω/sq.)min	Thermal conductivity (W/m•K)	Operating temperature (°C)
IBQ11	μ'/μ"=110/1.0	1G	1.5	-40 to +85
IBQ14	μ'/μ"=150/2.0	1G	1.5	-40 to +85
IBQ15	μ'/μ"=150/2.1	1G	1.5	-40 to +85
IBQ17	μ'/μ"=170/2.3	1G	1.5	-40 to +85

Frequency vs. Permeability



All specifications are subject to change without notice. Before using these products, be sure to request the delivery specifications.

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.

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 specification sheet 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.