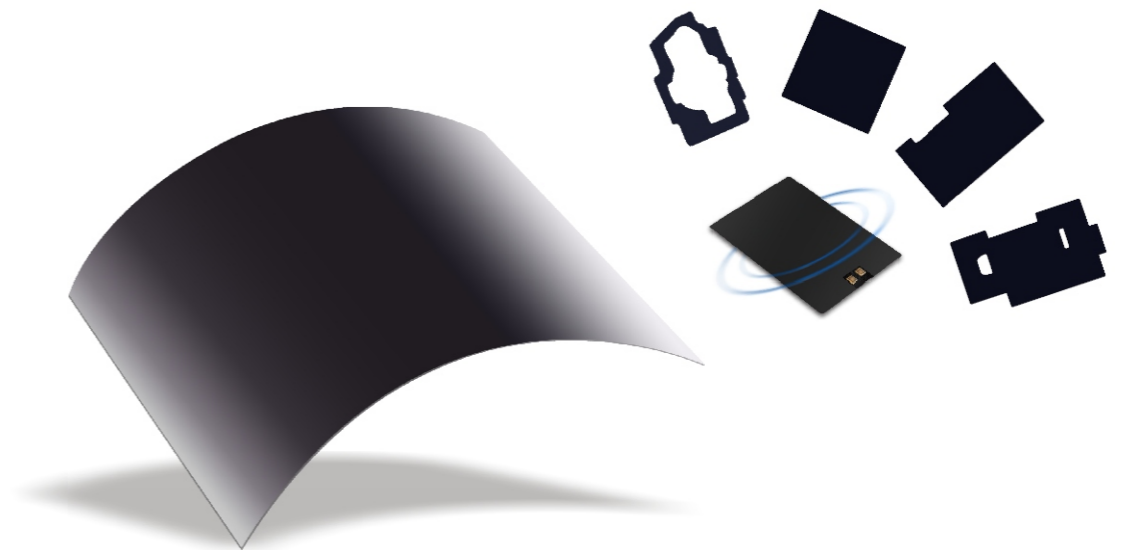




# Ferrite Sheet

## for NFC Antenna

NFC天线用铁氧体磁片

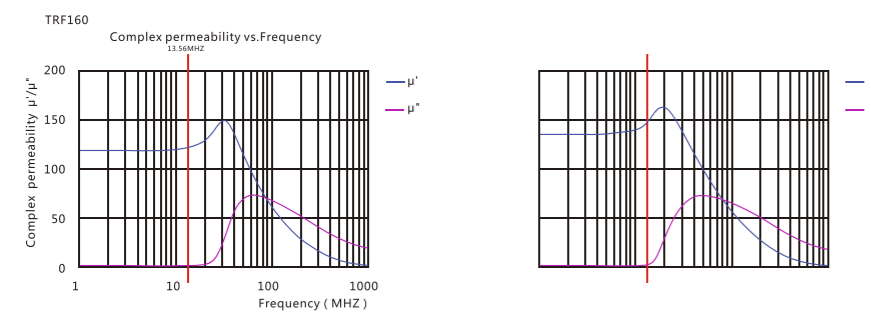


### Electrical Characteristics

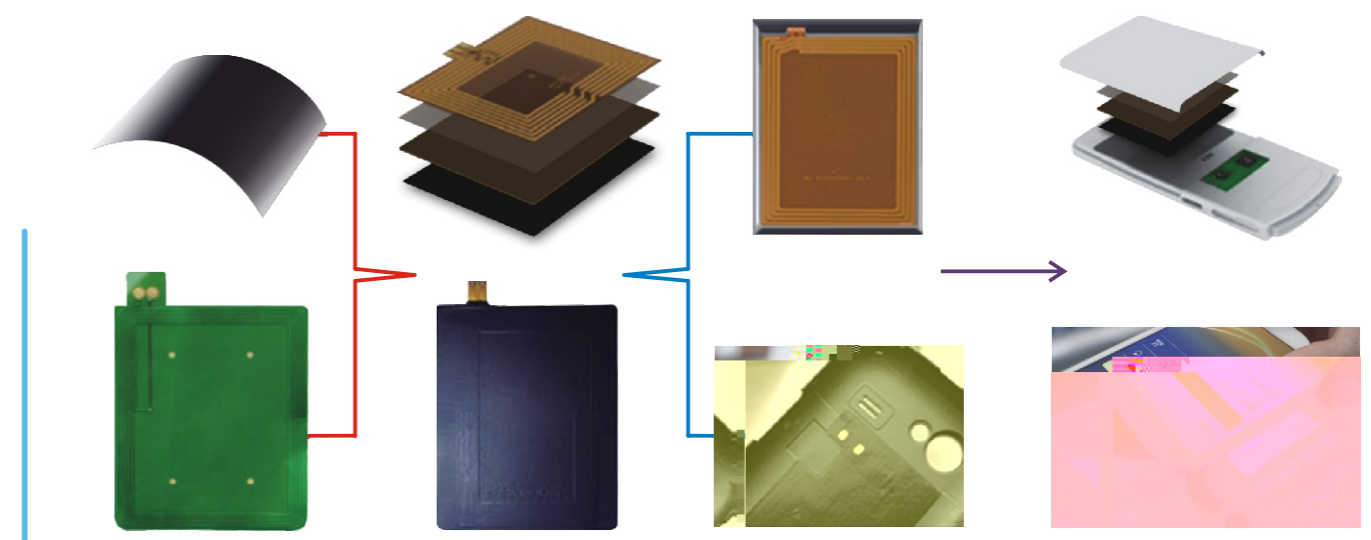
Typical Value

Material	TRF160	TRF180	TRF220
Real part permeability $\mu'$ @13.56MHz	130±20%	150±20%	170±20%
Imaginary part permeability $\mu''$ @13.56MHz	1.5	2.5	3.5
Operating frequency	13.56MHz		
Operating temperature	-40°C ~ 85°C		

### Permeability Characteristic



### 产品应用 Applications

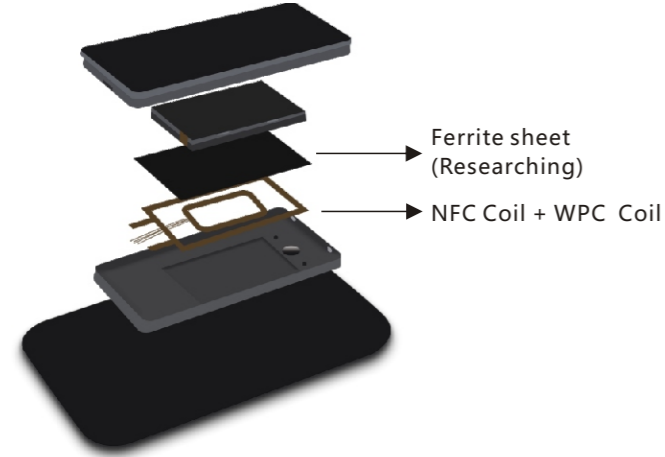


**天通控股股份有限公司**  
**TDG Holding Co., Ltd.**

地址: 浙江省海宁市天通科技园区  
 电话: +86-573-87681819  
 董先生: +86-136 5660 1560 dsy@tdgcore.com  
 杜先生: +86-151 6739 2108 Dch@tdgcore.com  
 李先生: +86-152 5730 5069 ljy@tdgcore.com

Add: TDG Scientific Park, Haining, Zhejiang, China  
 Tel: +86-573-87681819  
 Mr. Dong: +86-136 5660 1560 dsy@tdgcore.com  
 Mr. Du: +86-151 6739 2108 Dch@tdgcore.com  
 Mr. Li: +86-152 5730 5069 ljy@tdgcore.com

## 产品趋势 Product Trends



## Features 铁氧体磁片作用

- 有效改善NFC天线产品的性能  
Effective improvement of mobile NFC system
- 产品可以折弯  
Flexible
- 带有双面胶与组合体紧密贴合  
Suited for thin and compact devices
- 通过增加天线的磁场强度  
有效增加感应距离  
Increased magnetic field

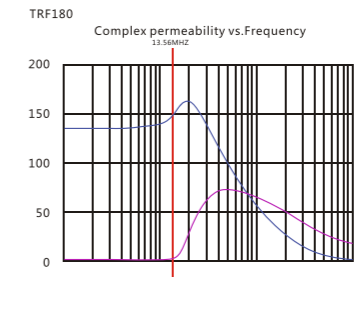
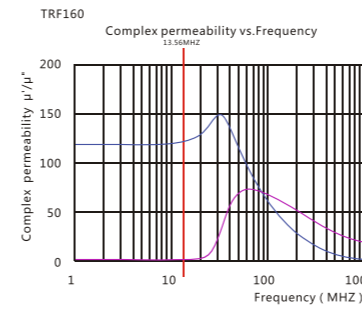
注：铁氧体磁片同时可以满足NFC和WPC的需求，且互不干扰  
The ferrite sheet can meet the WPC & NFC at the same time, without interference.

## 电磁特性

### 基本特性

材料	TRF160	TRF180	TRF220
磁导率实部 $\mu'$ @13.56MHz	130±20%	150±20%	170±20%
磁导率虚部 $\mu''$ @13.56MHz	1.5	2.5	3.5
工作频率	13.56MHz		
工作温度	-40°C ~ 85°C		

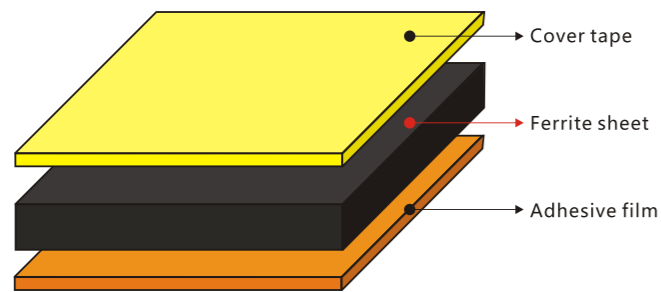
### 磁导率特性曲线



## Structure

## 产品构成

外观 Appearance



## Part Number

## 料号说明

**TRF — 160 — I — L×W×T**  
(1) (2) (3) (4)

- (1) : TDG铁氧体磁片代码/ TDG flexible ferrite sheet
- (2) : 磁导率代码/ Permeability ( $\mu'=160$ )
- (3) : 形状规格代码/ Type
- (4) : 尺寸代码 (mm)/ Size (mm)

## Structure and Dimension (mm)

## 产品规格尺寸

Ferrite Thickness	Cover Film +Adhesive Thickness	Total Thickness	Sample Size L(mm)×W(mm)
0.06	0.01mm + 0.01mm	0.08	60×60 120×60
0.08	0.01mm + 0.01mm	0.10	
0.10	0.02mm + 0.02mm	0.14	
0.15	0.02mm + 0.02mm	0.19	
0.20	0.03mm + 0.03mm	0.26	

可根据客户设计尺寸提供模切产品  
Provide die-cutting products according to customer requirements