

NFC Sticker/EMC Material

Resistance To Metal, Smart Phone

(Sintered Ferrite Sheet/烧结铁氧体)

1. Ferrite application 铁氧体应用: .

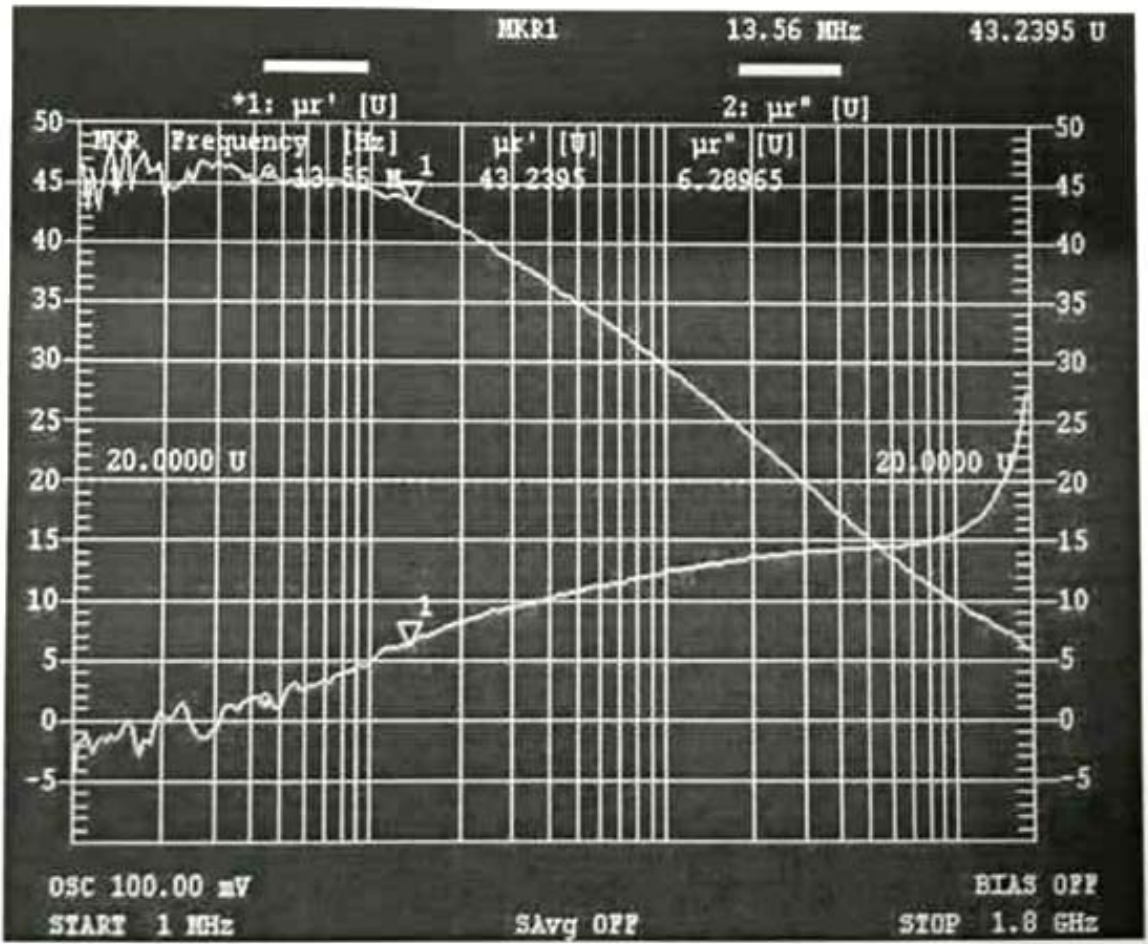
- 1.1.Mobile phone with NFC Function/NFC 功能的手机;
- 1.2.非接触 ID 卡, IC 卡;
- 1.3.RFID 读/写器,RFID 标签/RFID Reader/writer/tag;
- 1.4.抗金属应用
- 1.5. Wireless Charger

2.Physical,Frequency specifications(基本特性及工作频率):

Features/项目	Value/特性
Type/产品规格	Ferrite sheet/铁氧体
Effective carrier frequency/工作频率	13.56MHZ and below/13.56MHZ 及以下
Operating temperature/工作温度(.C)	-30.C --- +85.C
Permeability/磁导率(@13.56MHZ) μ' (磁导率):	43.2395
Surface resistivity/表面阻抗(Ω)	$\geq 10^8$ R
Heat conductivity 导热系数(W/m.k)	1.0 W/m.k
Adhesive Tape 背胶类型	Customization Option 用户可选
Color/颜色	Black/黑色

2.1:测试仪器:HP4285A;

3.Permeability characteristic/磁导率特性曲线:



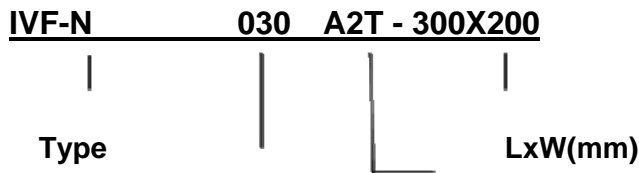
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2. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.

4.厚度及公差/Thickness and tolerance:

Item code	Dimension (mm) 外形尺寸	Cover thickness (mm)	Adhesive thickness (mm)	Total thickness (mm)	Tolerance (mm)
IVF-N012-A1T-300x200	Roll maximum 250mmx20m or sheet customized, 卷材或定制片状	customilzed	0.015/ 0.03	0.12	0.01
IVF-N023-A2T-300x200	Roll maximum 250mmx20m or sheet customized, 卷材或定制片状	customilzed	0.015/ 0.03	0.23	0.01
IVF-N030-A2T-300x200	Roll maximum	customilzed	0.015/ 0.03	0.3	0.01

	250mmx20m or sheet customized, 卷材或定制片状				
IVF-N045-A2T-300x200	Roll maximum 250mmx20m or sheet customized, 卷材或定制片状	customilzed	0.015/ 0.03	0.45	0.01
IVF-N060-A2T-300x200	Roll maximum 250mmx20m or sheet customized, 卷材或定制片状	customilzed	0.015/ 0.03	0.60	0.01

5.Part Number/料号:



Thickness(mm): Adheisive Tape 双层或单层

030 means 0.3mm

- 5.1: type N : 电子材料专用代号
- 5.2: Thickness: Ferrite sheet thickness/铁氧体厚度 0.3mm;
- 5.3: Adhesive tape 背胶 A2T, 双面背胶;

6.Reliability test/可靠性测试:

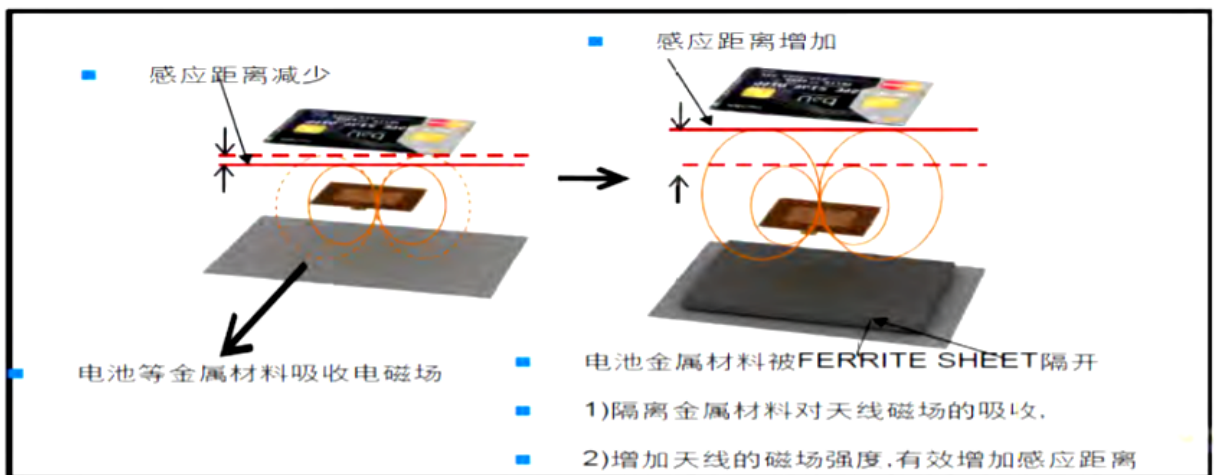
No	ITEM/项目	TEST CONDITION/测试条件	TEST REQUIREMENTS/测试结果
1	High Temperature Resistance/经高温后测试 temperature 经高温后 60 分 后室温条件下	1. Temperature : +85 ± 5℃ 温度:+85± 5℃ 2. Time : 96 hrs 时间:96 小时 3. Measure after left for 60 min. at room	1. No visual damage/表面无异常变化 2. Permeability change ± within 15% 磁导率变化±15%
2	Low Temperature Resistance/经低温后测试	1. Temperature : -40 ± 5℃ 温度:-40± 5℃ 2. Time : 96 hrs 时间:96 小时 3. Measure after left for 60 min. t room temperature 经低温后 60 分后室温条件下	1. No visual damage/表面无异常变化 2. Permeability change ± within 15% 磁导率变化±15%
3	Humidity/经潮湿后测试 (Steady Condition)	1. Humidity : 80 % RH 湿度:80%RH 2. Temperature : +80 ± 3℃温度:+80± 3℃ 3. Time : 120 hrs 时间:120 小时 4. Measure after left for 60 min. at room temperature 在 80%湿度高温 120 小时后 60 分钟室温条件下	1. No visual damage/表面无异常变化 2. Permeability change ± within 15% 磁导率变化±15%

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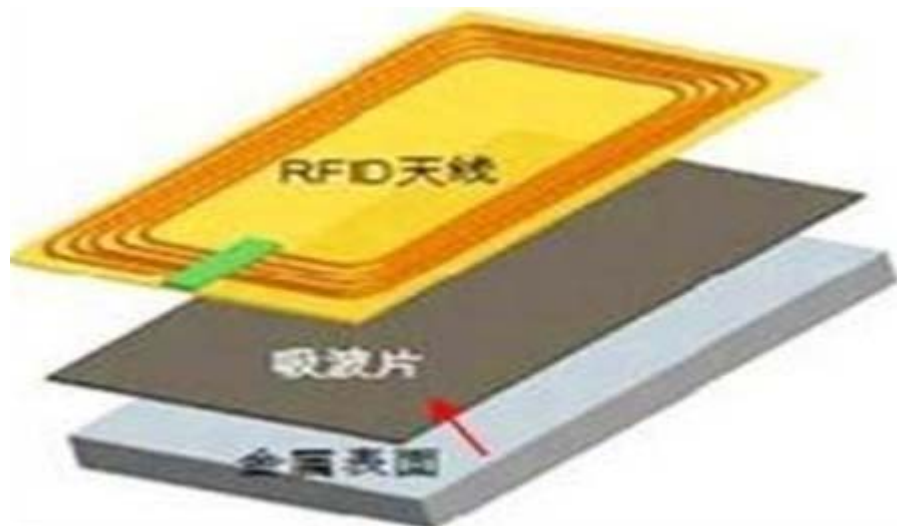
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7.Features/铁氧体的作用:

- 7.1.Increased improvement of mobile NFC system/有效改善 NFC 天线产品的性能;
- 7.2.Production can flexible/产品可以弯折;
- 7.3.Increased magnetic field convergence by relative magnetic permeability/通过增加天线的磁场强度,有效增加感应距离;

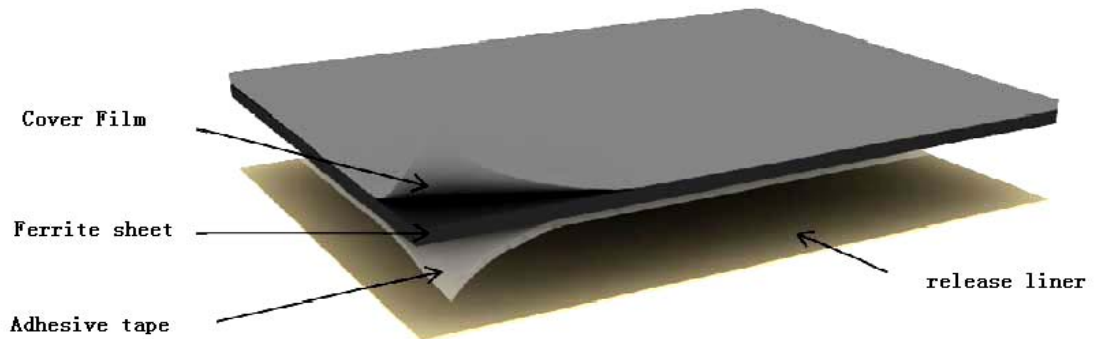


8. RFID Usage 使用方法



Metal Surface mean 金属表面指的是贴附的物体表面，可以是金属也可以是其它物体

8. Structure of ferrite/铁氧体结构



8.1. INF-M series ROHS compliant products/EMC 系列产品符合 ROHS 要求.

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