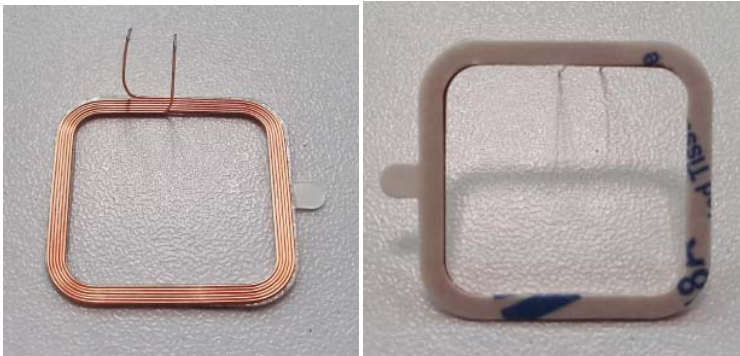


NFC 天线规格书

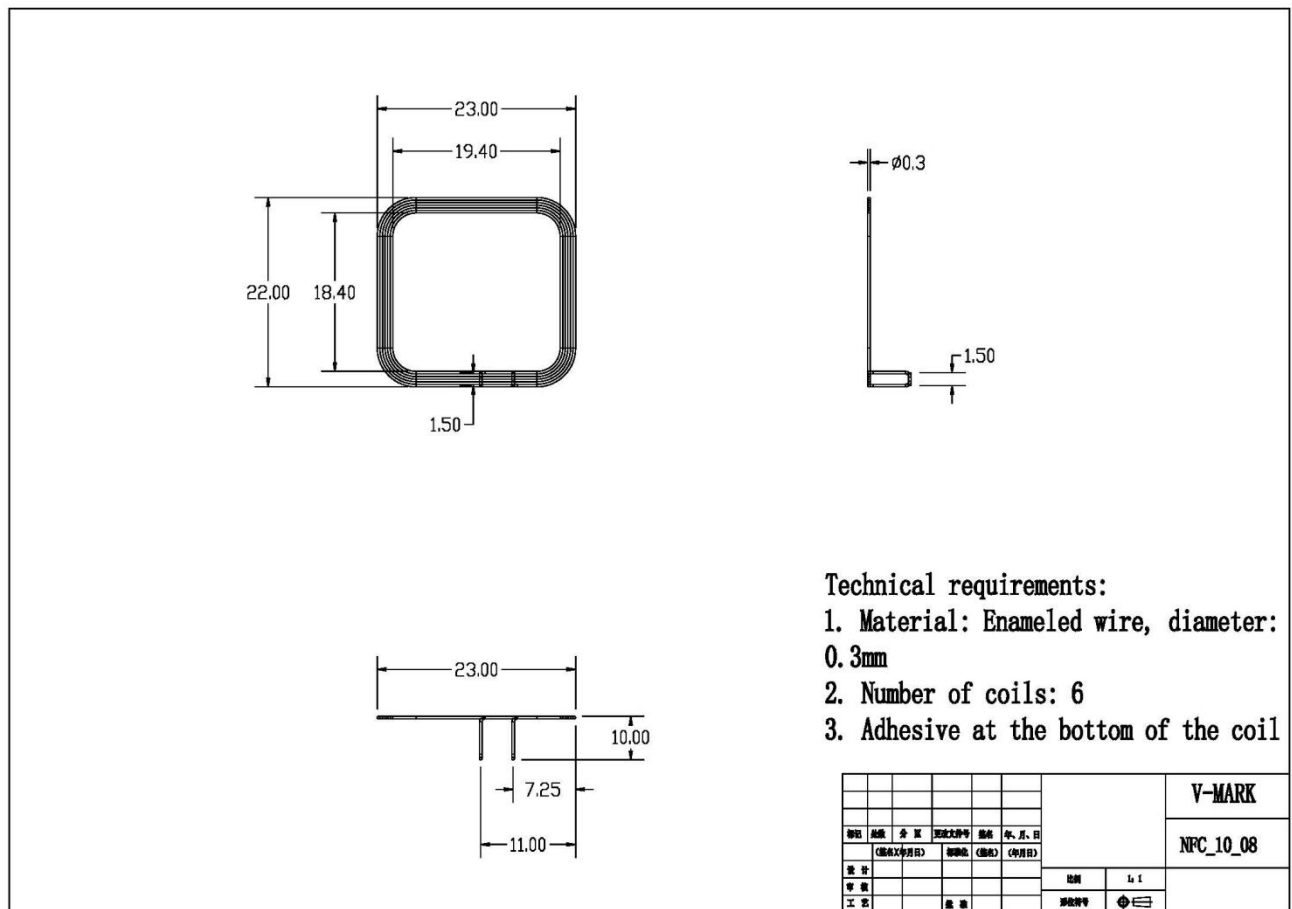
NFC Antenna Specification

1. 参数(Parameters)

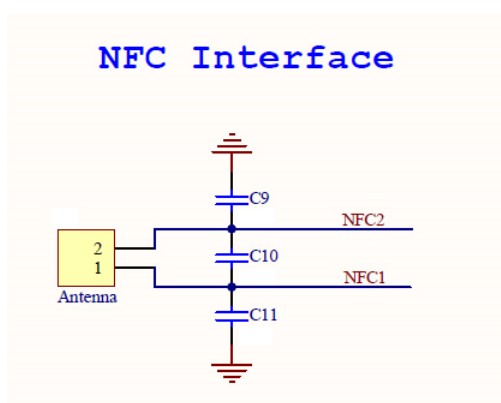


NFC 天线电气性能指标 Electronic Characteristic	
型号 Part No.	VMNA-001
频率范围 Frequency Range	13.56Mhz
感应距离 Sensing distance	20 ~ 30mm
电感 Inductance L_{ant}	Typical:1.7uH
电阻 Resistance R_{ant}	650m Ω
Q 值 Q value	~200
天线增益 Gain(dBi)	1.0
谐振电容 Matching Capacitance(pF)	150 ~160
形状 Shape	Rectangle
线径 Wire Diameter	0.3mm
尺寸 Size	23mm x 22mm
天线面积 Antenna area	506mm ²
天线类型 Antenna Type	空心线圈(Air Core Coil)
连接方式 Connection Type	焊接 Soldering
材质工艺 Material Technology	F22*23*0.3T- ϕ 0.3-6T-10mm wire lead
包装规格 Packing	100pcs/pk

2. 天线图纸 (Drawing)



3. 匹配网络 (Matching Circuit)



Item	Reference	Value
1	C9	10pF
2	C11	10pF
3	C10	68~75pF

注意 (Note): 上面的匹配电路是基于 nRF52833 和 nRF52840 NFC tag 实际测试结果而得来的。通讯距离可以达到 30mm 左右。

The above matching circuit is based on nRF52833 and nRF52840 NFC tag test. The communication distance is about 30mm.