



NFCM66-1 / NFCM66-2

ISO/IEC 14443-3 Type A support of NFC Forum TM Type 2 Tag

NFC Tag Data Sheet

Document Type: NFC Tag Datasheet

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Revision History

Date	Version	Description	Author
2012-11-12	V1.0	First Release: NFCM66-1	
2012-12-01	V1.1	Add New Tag: NFCM66-2	



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1. INTRODUCTION

The NFCM66 NFC module has been designed to be integrated into Bluetooth speaker and other electric devices to access the benefits of NFC technology, it is compliant to ISO /IEC14443-3 Type A support of NFC Forum TM Type 2 Tag Operation. With a wide variety of form factors, and a custom design service, the NFC modules have solutions to match every application.

1.1 Features

NFC is a standards-based short-range wireless connectivity technology for electronic devices.

✓ Small overall dimension

NFCM66-1 (D:27mm x T:1.0mm)

NFCM66-2 (D:10mm x T:1.0MM)

✓ Intelligent 1216 bit EEPROM

✓ ISO/IEC 14443-3 Type A support of NFC Forum TM Type 2 Tag Operation

✓ Frequency 13.56 MHz

✓ Data rate 106 Kbit/s in both direction

✓ Read and Write Distance up to 10mm

1.2 Application

NFC is a wireless standard where messages must be exchanged and communicated in a standardized way. This makes NFC very suitable for a wide range of ubiquitous applications. Example applications are within instant Bluetooth pairing, public transport, And so on.



2. PHYSICAL CHARACTERISTIC

2.1 NFCM66-1

Dimension:

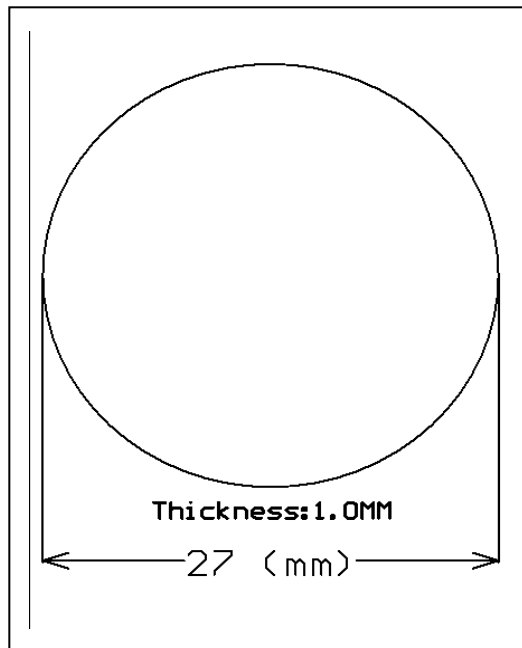


Figure 2

Top View:

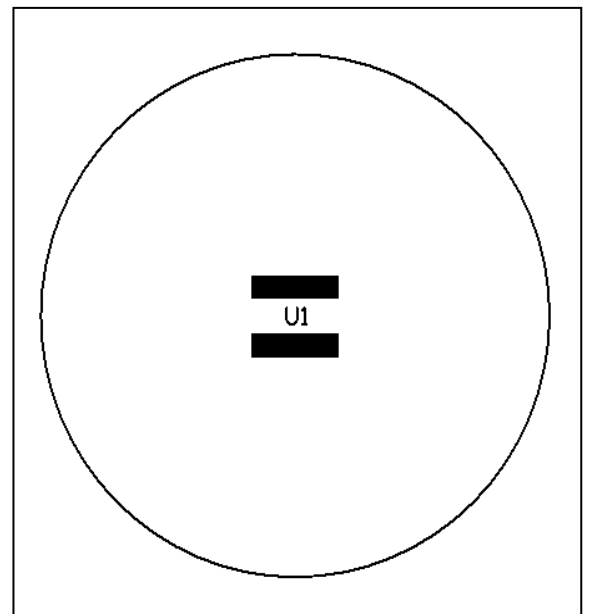


Figure 3

Pin Definition:

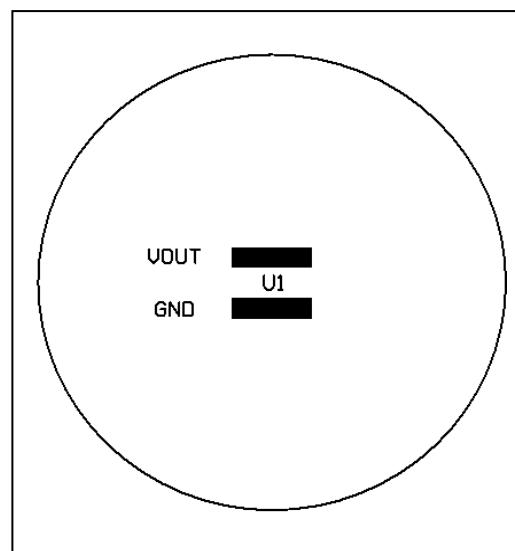


Figure 4



2.2 NFCM66-2

Dimension:

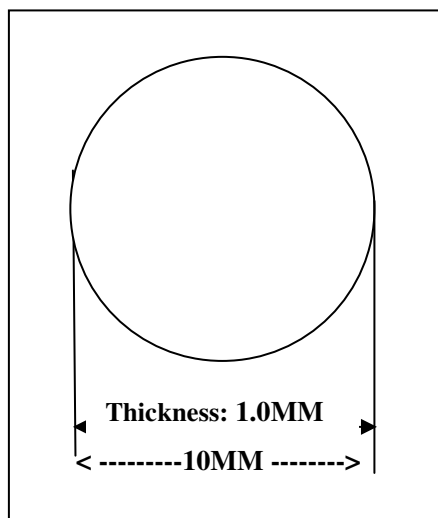


Figure 5

Top View:

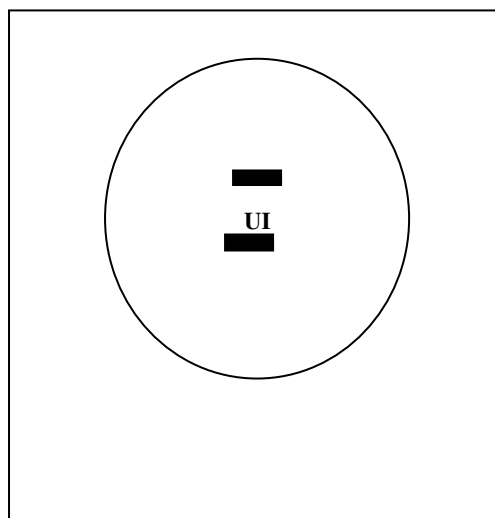


Figure 6

Pin Definition:

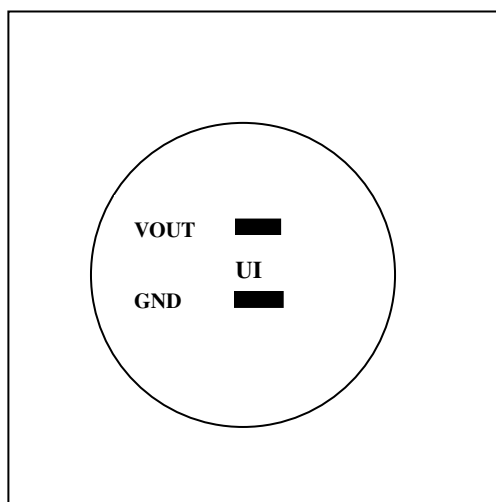
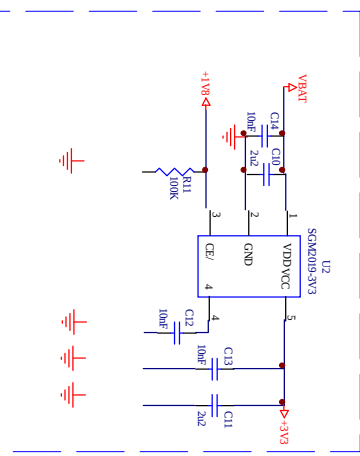
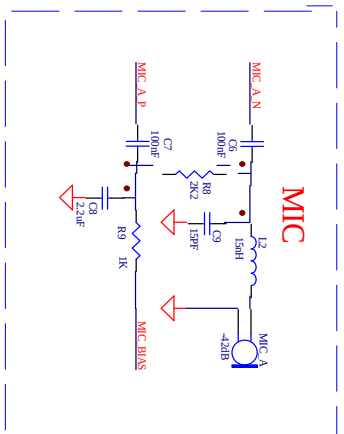
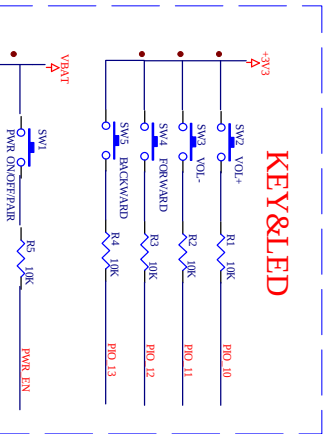
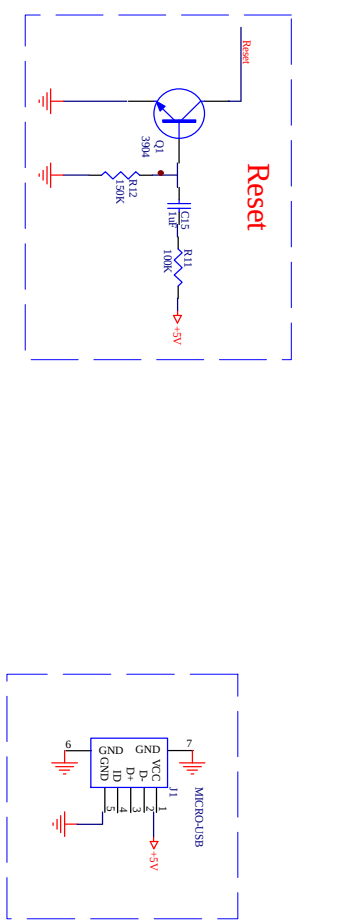
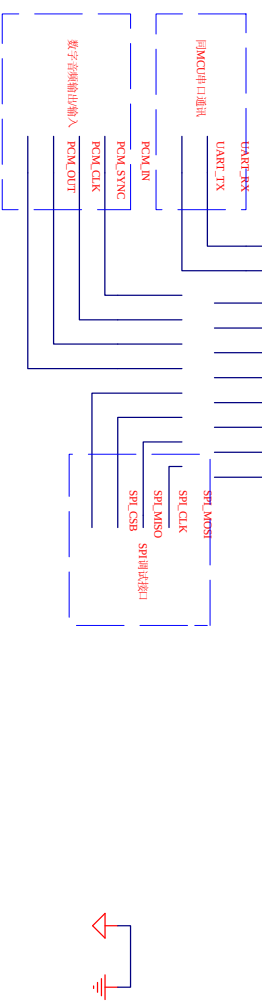
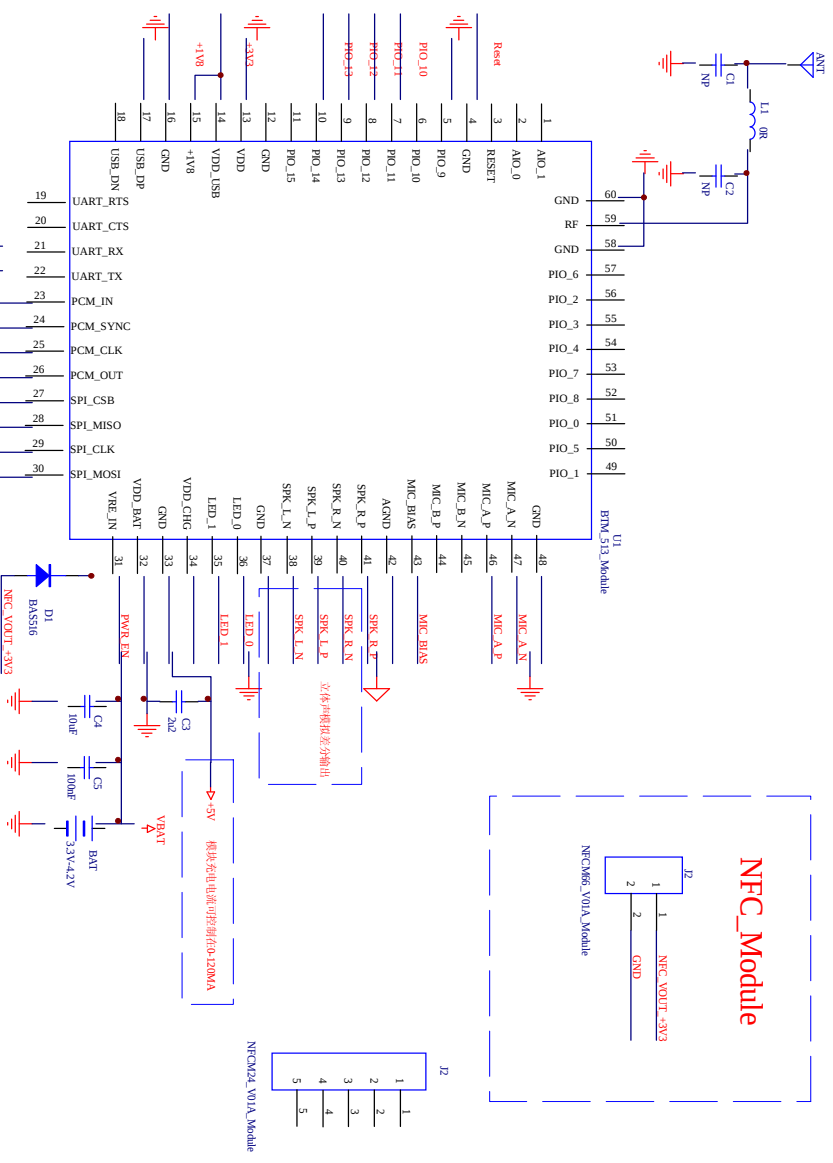


Figure 7

2.3 Pin Description

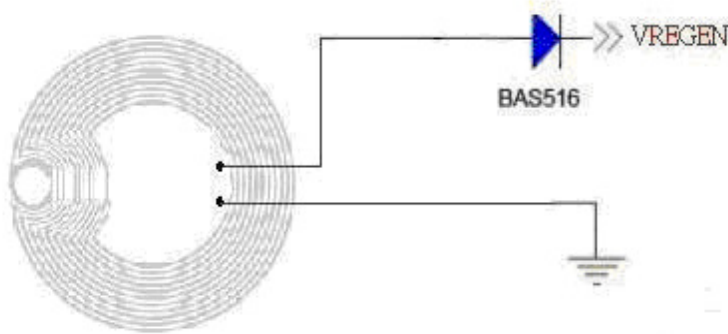
Pin#	Pin Name	Pad Type	Description
1	VOUT	Energy harvesting output	Analogue output
2	GND	Ground	Ground



3. REFERENCE SCHEMATIC



Antenna Drawing



Title	NFC Tag reference design	Rev 1.0
Date	Sepemter, 2012	
This document only for reference		

Note:

NFC module has PIN1 & PIN2 regardless of sequence, one connects to the GND, another is for output, and need to pick up a diode to the GND. When the unit with NFC reader is close to the NFC tag, the high pulse will be sent from the pin. Specific applications can depend on the functions of Bluetooth according to the design. For example, the high pulse could wake up the Bluetooth module or make it enter pairing mode and so on.



4. ELECTRICAL CHARACTERISTIC

4.1 Absolute Maximum Rating

Rating	Min	Max	Unit
Storage Temperature	-40	+85	°C

Table 1

4.2 Recommended Operating Conditions

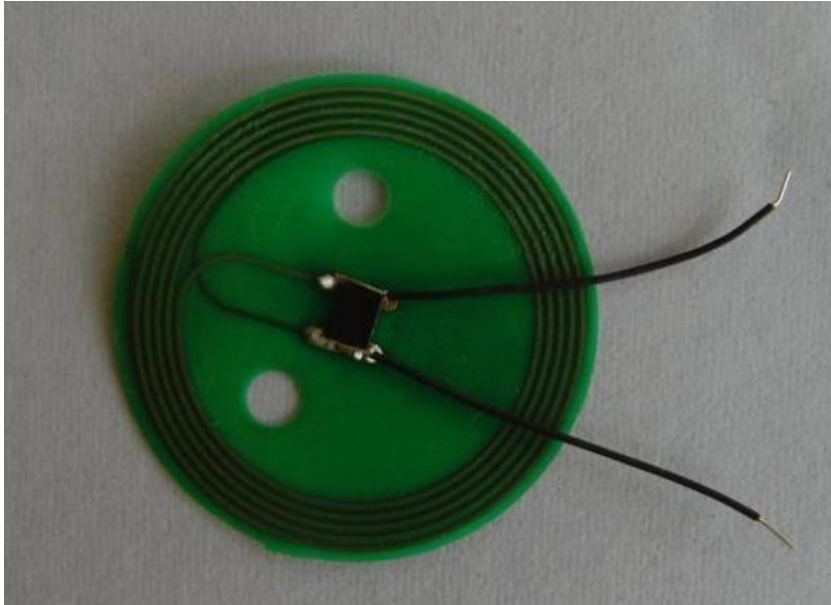
Operating Condition	Min	Typical	Max	Unit
VCC Voltage	+1.8	+3.3	+5.5	V
Operating Temperature Range	-20		+70	°C

Table 2

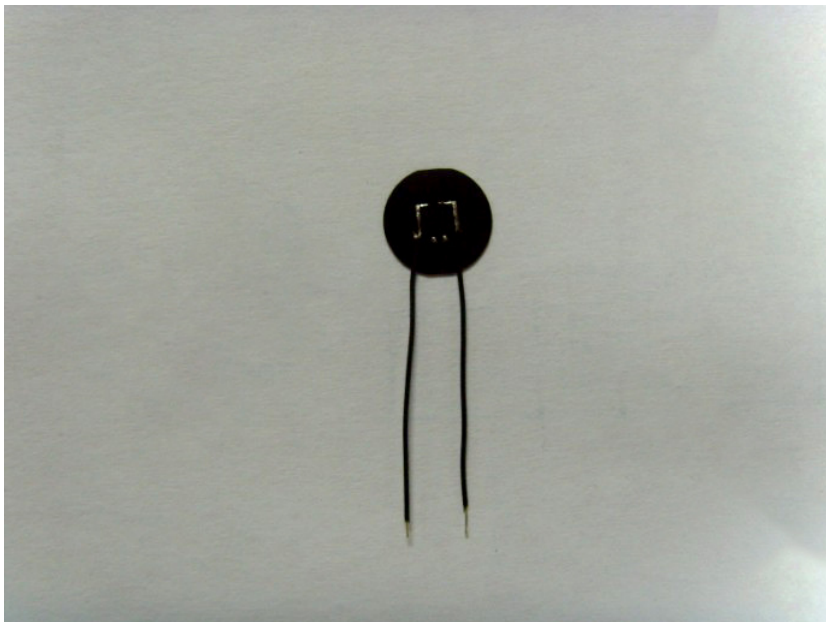


5. PACKAGING INFORMATION

1. NFC® Module: NFCM66-1



2. NFC® Module: NFCM66-2



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