

NFC Antenna Coil Datasheet

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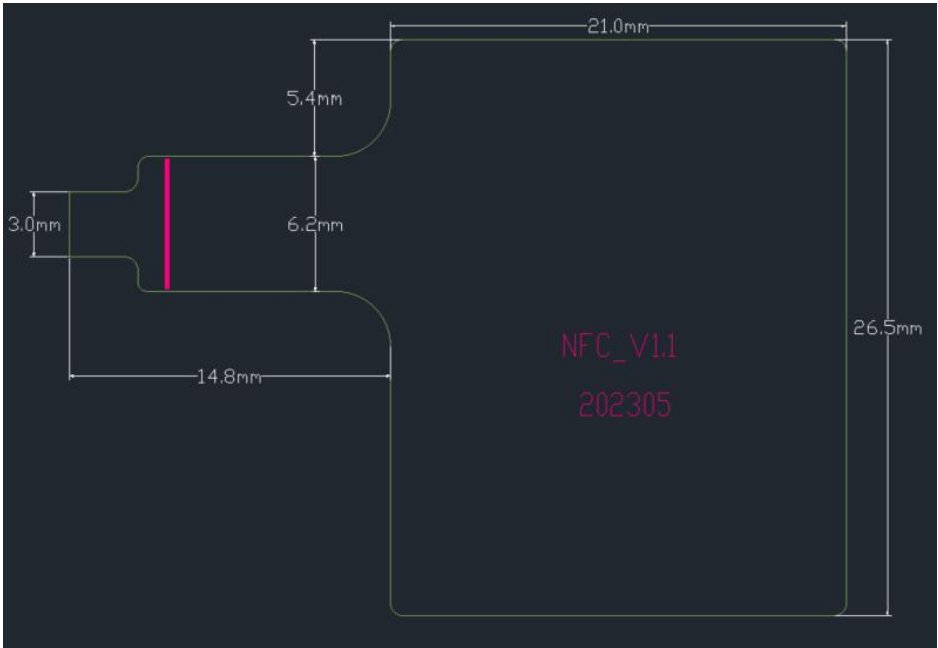
1. Product Overview

This product is a 13.56 MHz NFC induction antenna coil manufactured via flexible printed circuit (FPC) etching technology. It complies with ISO 14443 A/B and ISO 15693 standard protocols for NFC reader/writer devices. Featuring a fixed outline structure, it supports multiple mounting methods including adhesive attachment and SMT soldering. It is widely applied in industrial IoT devices, industrial control terminals, smart hardware for near-field NFC identification and card reading coupling communication.

2. Electrical Performance Parameters

Parameter	Specification	Remarks
Rated Operating Frequency	13.56 MHz	Standard frequency for high-frequency NFC
Communication Protocols	ISO 14443 A/B, ISO 15693	Universal NFC reader/writer protocols
Tuning Method	Resonant tuning with external matching capacitors on the backend circuit	No matching components integrated on the antenna
Typical Inductance	1.0 ~ 2.0 μ H	Refer to actual sample measurement
Quality Factor (Q Factor)	≥ 30	
Equivalent Series Resistance ESR	$\leq 1.5 \Omega$	
Operating Temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C	
Humidity Range	5%~95% RH, Non-condensing	

3. Mechanical Dimensions



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We, Jiaxing Bogan Technology Co., Ltd., states that All measurements were performed radiated and therefore additional antenna gain documentation is not required.