

SPECIFICATION

Part No.	:	FXT.01
Product Name	:	Flexible PCB Near-Field Communications Tag Antenna
Feature	:	13.56MHz Peel and Stick Adhesive Backing Communicates out to 5 cm to Reader Antenna RoHS Compliant





I. Introduction

Taoglas has developed a standard NFC (Near Field Communications) tag antenna for use with in mobile device and other applications. This standard design is matched for optimal performance with typical NFC chipsets. The antenna is dimensioned to provide interrogation capability out to 5 cm. distance. This standard antenna is manufactured in a flexible circuit board (PCB) form factor. The flex PCB design provides a flexible NFC tag that can be adhered to the plastic enclosure of the customer device for ease of installation.

With NFC tags being commonly attached to the battery of mobile devices, the NFC tag can be customized with a ferrite layer to provide isolation from the battery or other components in the device the tag is integrated in.



II. Specification Table

Flexible PCB Near-Field Communications Reader Antenna				
Frequency	13.56	MHz		
Return Loss	≥ 10	dB		
Polarization	Linear			
Impedance	50	Ohm		

MECHANICAL				
Antenna Dimensions	53.3mm x 36.8mm			
RoHS Compliant	Yes			
Adhesive	3M 467			
ENVIRONMENTAL				
Operation Temperature	-40°C to 85°C			
Storage Temperature	-40°C to 85°C			
Humidity	Non-condensing 65°C 95% RH			

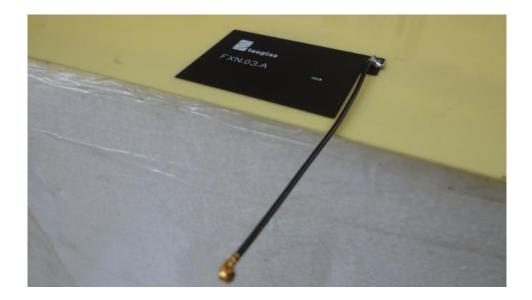


III. Antenna Characteristics (Free Space)

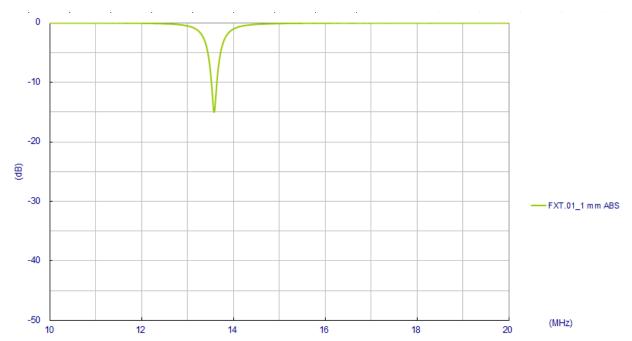


III.1. Return Loss

IV. Antenna Characteristics (on 1mm ABS)







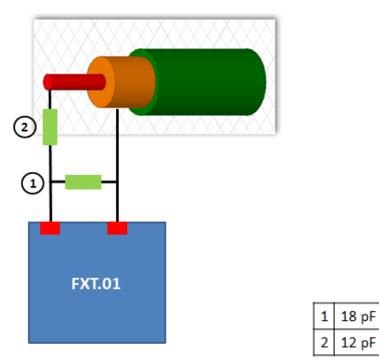
IV.1. Return Loss

IV.2. Smith Chart





IV.3. Matching



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V.Mechanical Drawing

