

Datasheet

NFC Tag

FPC / Embedded

Features:

Thin, semi-flexible structure
 Easily assembles to device covers or mechanics
 Well-known antenna concept, reliable technology

Applications:

Mobile devices
 IoT devices
 Home automation devices
 Sharing / pairing



15 x 19 x 0.2 mm

NFC Antenna



Electrical Specifications

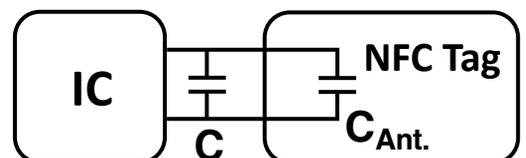
Antenna Characteristics

Frequency (MHz)*	13~15.5
Inductance (μH)**	2.53
Resistance (Ω)**	2.41
Self Resonance Frequency (MHz)**	27.41
Q-Factor**	30.4

* With matching component.

** Bare coil without any matching component.

$C_{\text{Ant.}}$: Need to adjust with IC capacitance.



Mechanical Specifications

Environmental

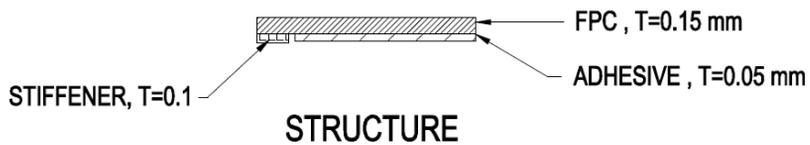
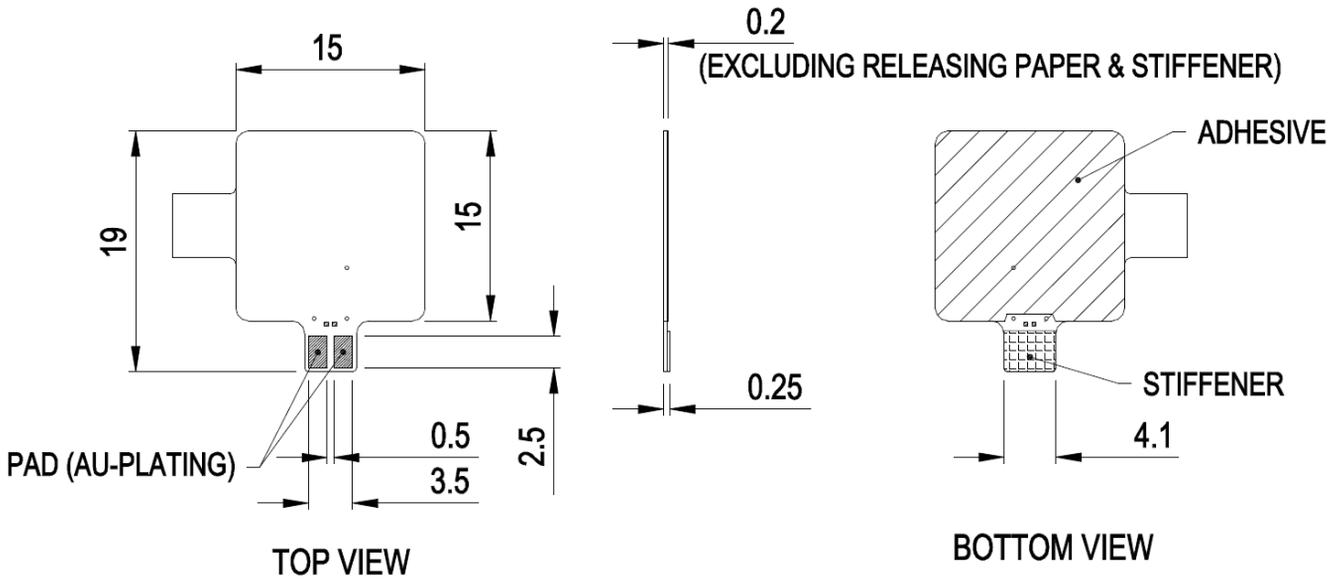
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Dimension (mm)	Weight (g)	Material	Adhesive
ST0812-00-N01-U	15.0 x 19.0 x 0.2	0.1	PI	3M 467MP

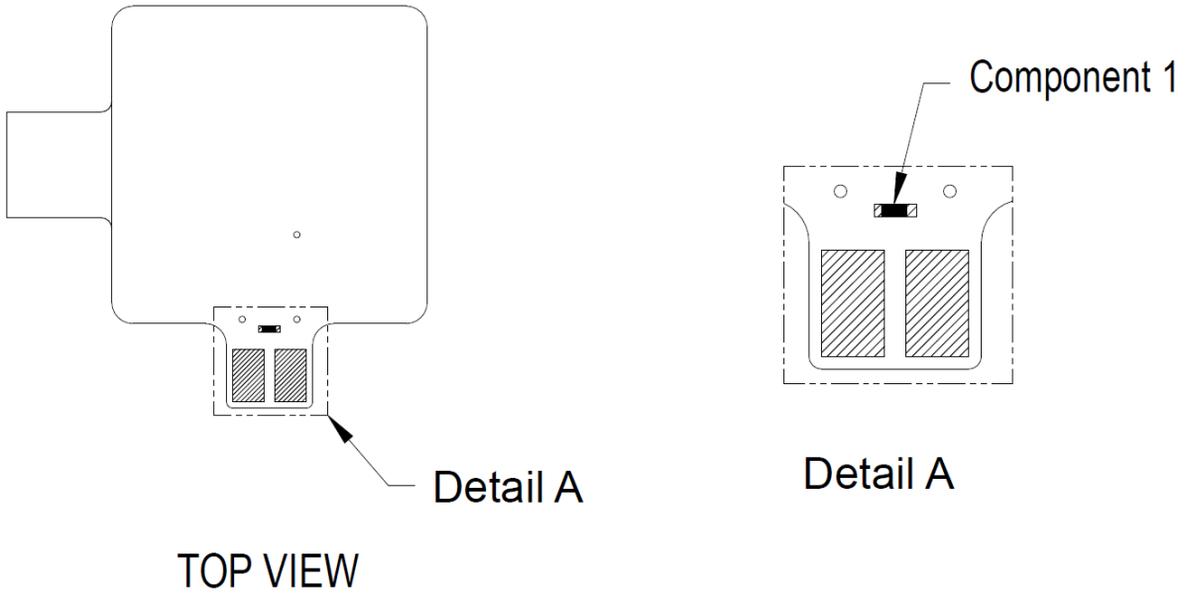
Mechanical Drawing

Unit : mm



ST0812-00-N01-U

Matching Circuit Design



* Application of matching circuits.

Circuit Matching Components

Circuit Symbol	Size	Description
Component 1	0201	None

Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-22	ST0812-00-N01-U-RA00	ATC

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