

Datasheet

NFC Tag

PCB / Embedded

Features:

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

Applications:

- Mobile devices
- Home automation devices
- IoT devices
- Sharing / pairing



15 x 19 x 0.6 mm

NFC Antenna



Electrical Specifications

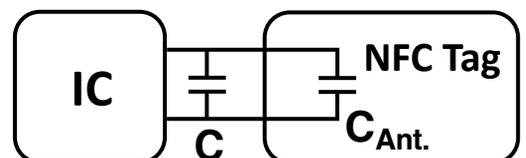
Antenna Characteristics (Contains Ferrite)

Frequency (MHz)*	13~15.5
Inductance (μH)**	5.64
Resistance (Ω)**	2.13
Self Resonance Frequency (MHz)**	27.39
Q-Factor**	37.9
Ferrite Permeability (μ')	150

* With matching component.

** Bare coil without any matching component.

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



Mechanical Specifications

Environmental

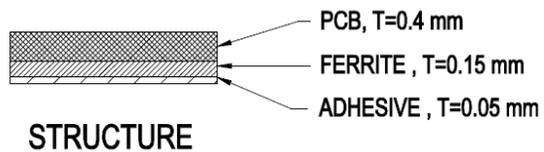
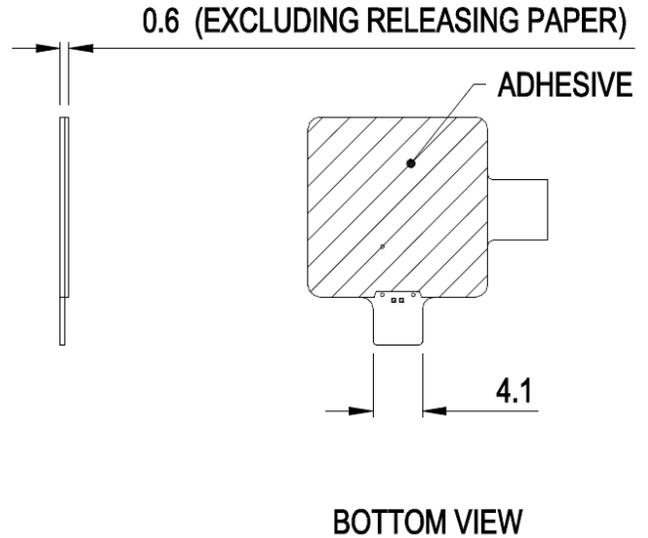
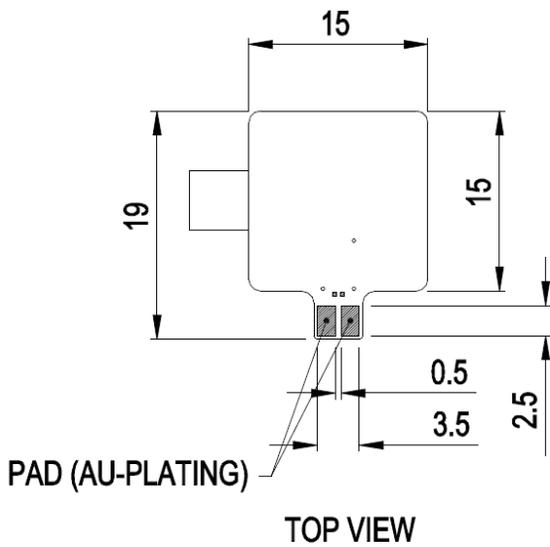
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Dimension (mm)	Weight (g)	Material	Adhesive
ST0815-00-N01-U	15.0 x 19.0 x 0.6	0.4	FR-4 + Ferrite	3M 467MP

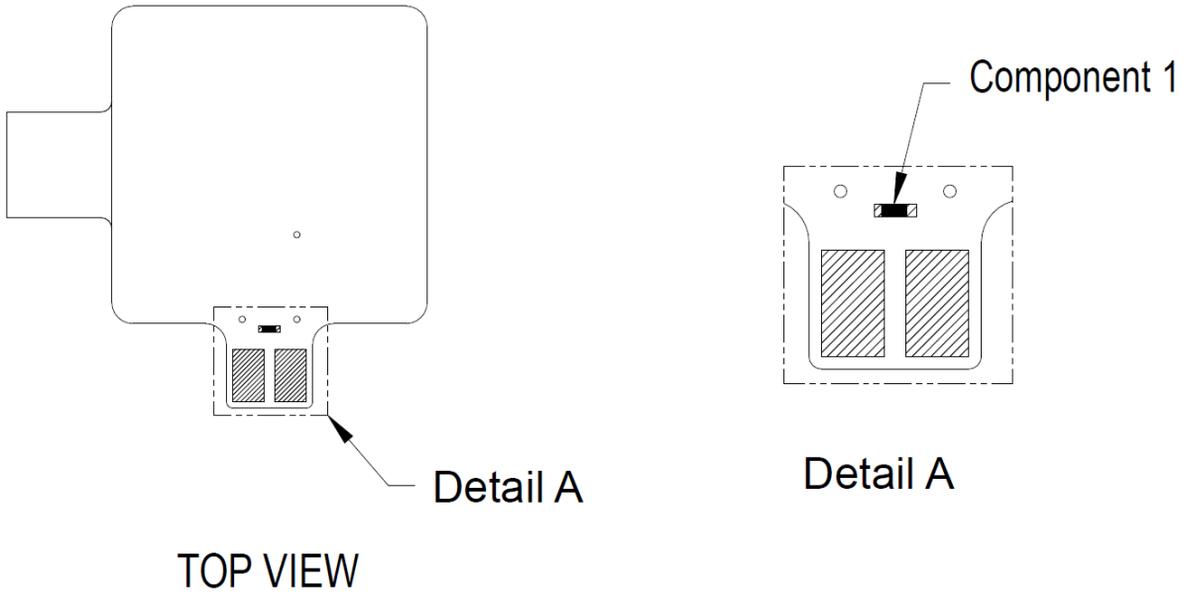
Mechanical Drawing

Unit : mm



ST0815-00-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	ST0815-00-N01-U-RA00	ATC

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