NFC

ST0812-22-N02-A

Amphenol

Datasheet

NFC Reader

FPC / Embedded

82 × 64 × 0.4 mm

NFC Antenna

Features

Thin and semi-flexible structure
Easily assembles to device covers or mechanics
Well-known pattern design, but with enhanced performance

Applications

Mobile devices
Payment terminals
Sharing / pairing

RoHS

Electrical Specifications

Antenna Characteristics (Contains Ferrite)

Frequency (MHz)	**13.56***	
Impedance (Ω)	20~30*	
Inductance (μH)	1.3**	1.3***
Resistance (Ω)	0.96**	0.98***
Self Resonance Frequency (MHz)	56.8**	86.2***
Q-Factor	41.4**	35.2***
Ferrite Permeability (μ')	150	

* With matching network.
** Antenna only
*** With Component 150p±5% Capacitance

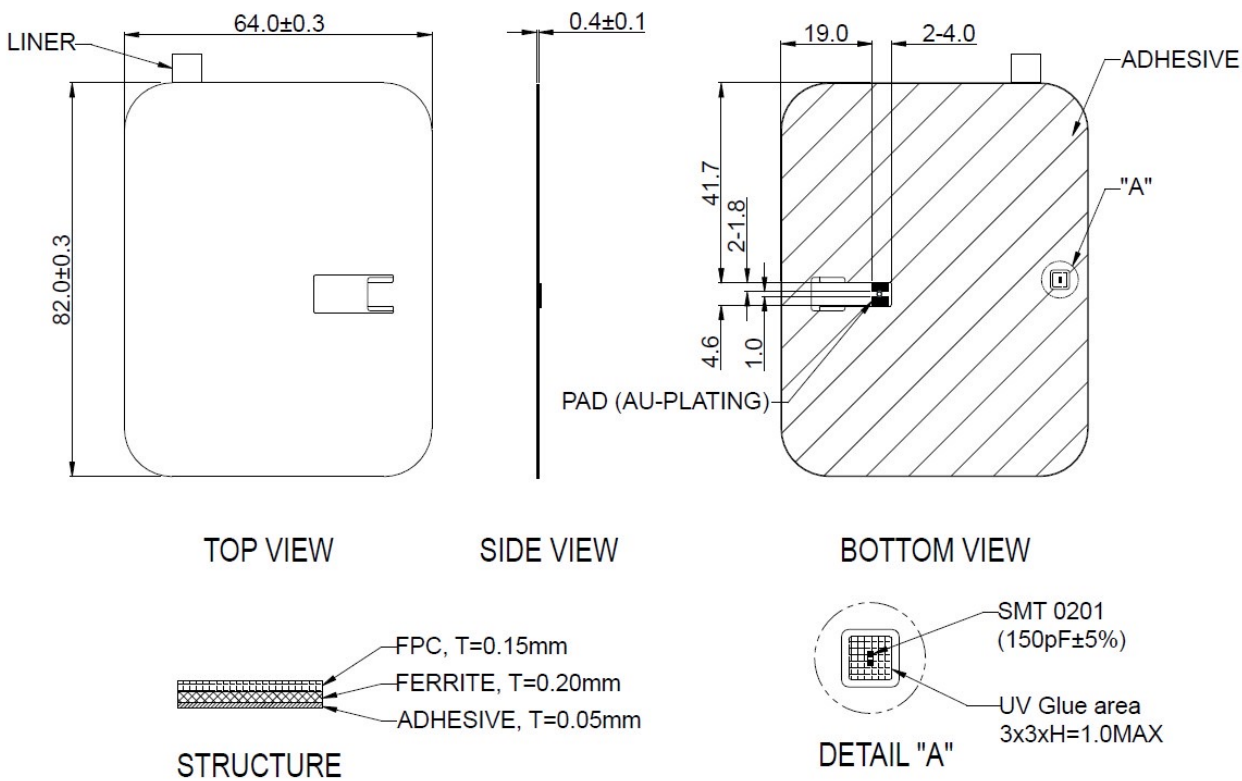
Mechanical Specifications

Mechanical	
Dimension (mm)	82.0 x 64.0 x 0.4
Material	FPCB + Ferrite
Adhesive	3M 467MP
Weight (g)	6.34

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

Mechanical Drawing

Unit : mm



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-12-15	ST0812-22-N02-A-RA00	ATC