

Datasheet

NFC Reader

FPC / Embedded

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



82 × 64 × 0.4 mm

NFC Antenna



Electrical Specifications

Antenna Characteristics (Contains Ferrite)

Frequency (MHz)	13.56*	
Impedance (Ω)	20~30*	
Inductance (μ H)	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 \pm 5% Capacitance

Mechanical Specifications

Mechanical

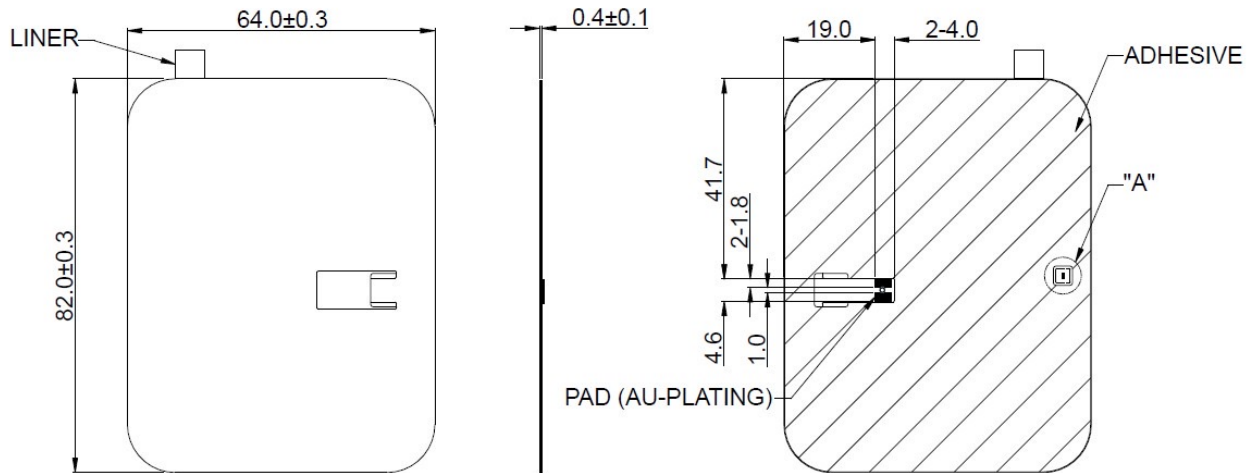
Dimension (mm)	82.0 × 64.0 × 0.4
Material	FPCB + Ferrite
Adhesive	3M 467MP
Weight (g)	6.34

Environmental

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

Mechanical Drawing

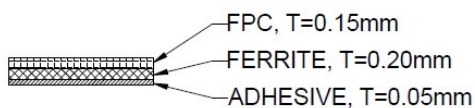
Unit : mm



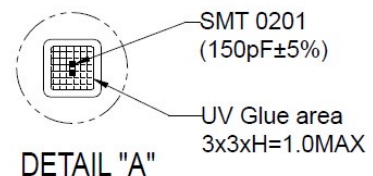
TOP VIEW

SIDE VIEW

BOTTOM VIEW



STRUCTURE



DETAIL "A"

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

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