

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



30 × 34 × 0.35 mm

NFC Antenna



Electrical Specifications

Antenna Characteristics (Contains Ferrite)

Frequency (MHz)	13.56*	
Impedance (Ω)	20~30*	
Inductance (μ H)	1.1**	1.1***
Resistance (Ω)	1.3**	1.15***
Self Resonance Frequency (MHz)	107.8**	132.8***
Q-Factor	42.5**	45.8***
Ferrite Permeability (μ')	150	

* With matching network.

** Antenna only

*** With Component 680p \pm 5% Capacitance

Mechanical Specifications

Mechanical

Dimension (mm)	30 x 34 x 0.35
Material	FPCB + Ferrite
Adhesive	3M 467MP
Weight (g)	0.9

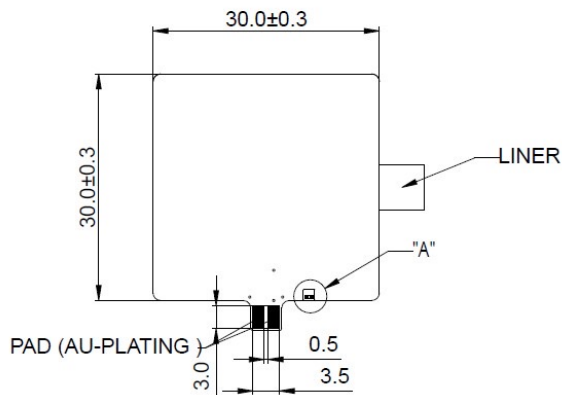
Environmental

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

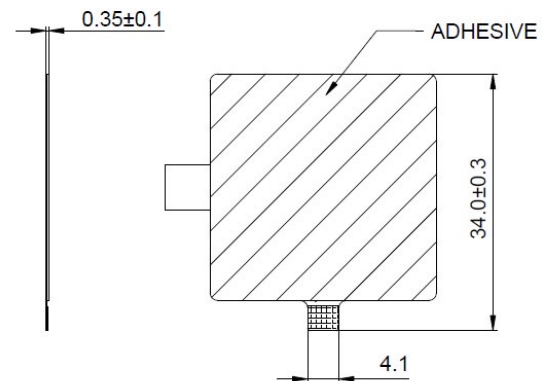
RoHS Compliant

Mechanical Drawing

Unit : mm

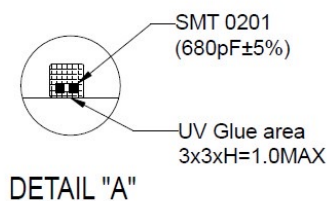


TOP VIEW

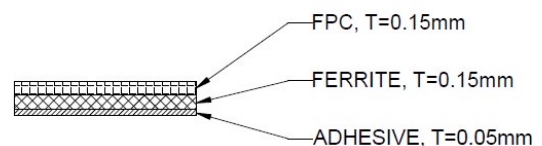


SIDE VIEW

BOTTOM VIEW



DETAIL "A"



STRUCTURE

Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-12-15	ST0812-11-N03-A-RA00	ATC

NOTICE - These drawings, specifications, or other data (1) are, and remain the property of Amphenol corp. (2) must be returned upon request; and (3) are confidential and not to be disclosed to any person other than those to whom they are given by Amphenol Corp. the furnishing of these drawings, specifications, or other data by Amphenol Corp., or to any other person to anyone for any purpose is not to be regarded by implication or otherwise in any manner licensing, granting rights to permitting such holder or any other person to manufacture, use or sell any product, process or design, patented or otherwise, that may in any way be related to or disclosed by said drawings, specifications, or other data.