

## Datasheet

## NFC Reader

FPC / Embedded

Features:

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

Applications:

- Mobile devices
- Payment terminals
- Sharing / pairing



57.8 x 40.3 x 0.5 mm

## NFC Antenna



## Electrical Specifications

## Antenna Characteristics (Contains Ferrite)

Frequency (MHz)*	13.56
Inductance ( $\mu$ H)**	1.67
Resistance ( $\Omega$ )**	1.90
Self Resonance Frequency (MHz)**	66.9
Q-Factor**	42.1
Ferrite Permeability ( $\mu'$ )	150

\* With matching network.

\*\* Bare coil without any matching network.

## Mechanical Specifications

## Mechanical

Dimension (mm)	57.8 × 40.3 × 0.5
Material	FPCB + Ferrite
Adhesive	3M 467MP
Weight (g)	0.81

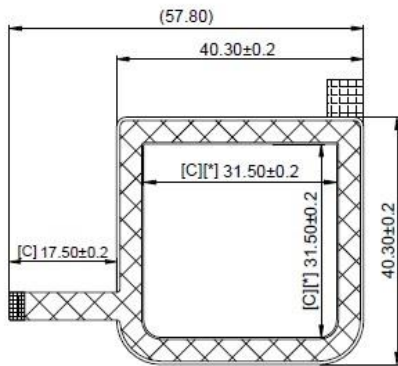
## Environmental

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

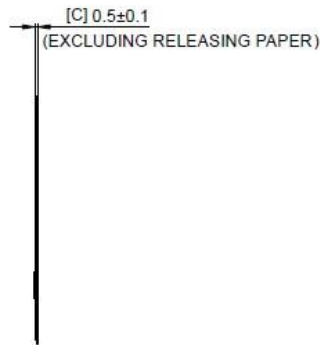
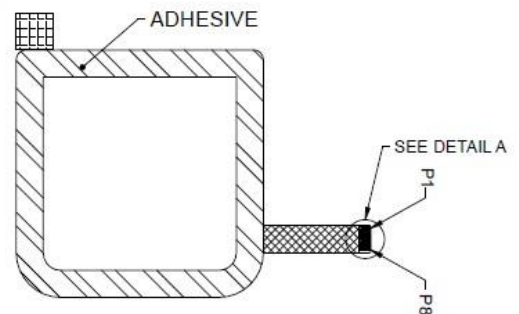
RoHS Compliant

## Mechanical Drawing

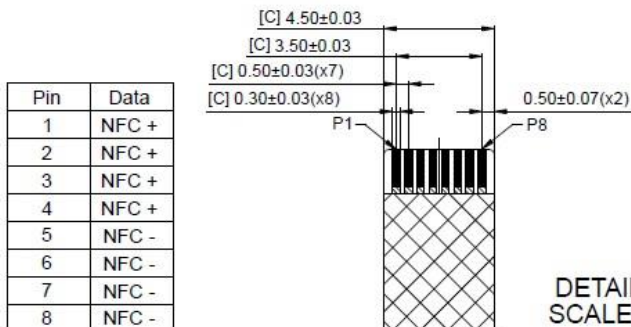
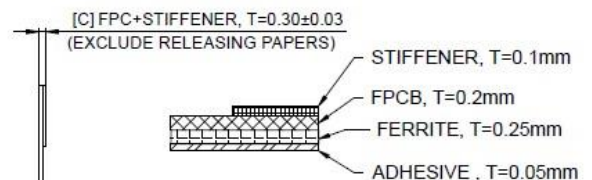
Unit : mm



TOP VIEW

Matchable Connector :  
HRS : FH34SRJ-8S-0.5SH(50)

BOTTOM VIEW

DETAIL A  
SCALE 4:1

STRUCTURE

ST0812-21-N01-A

Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-01-16	ST0812-21-N01-A-RA00	ATC

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