

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 (μH)**	1.67
Resistance (Ω)**	1.90
Self Resonance Frequency (MHz)**	66.9
Q-Factor**	42.1
Ferrite Permeability (μ')	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

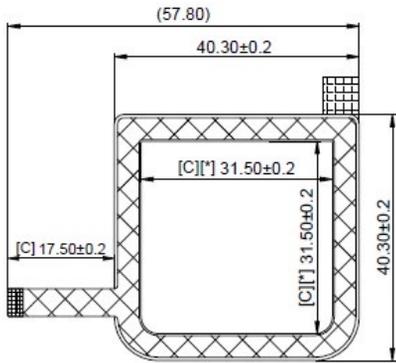
Environmental

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

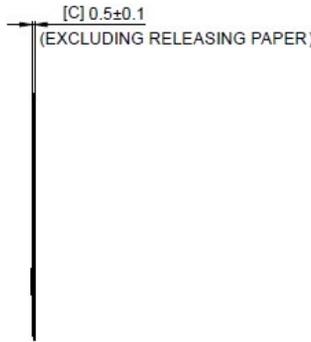
RoHS Compliant

Mechanical Drawing

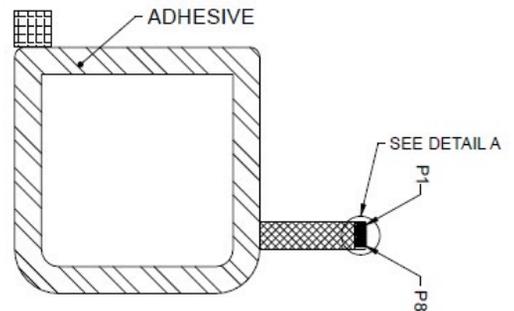
Unit : mm



TOP VIEW

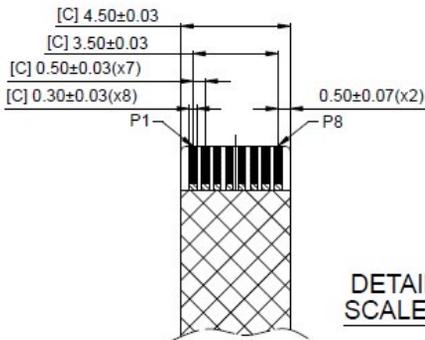


Matchable Connector :
HRS : FH34SRJ-8S-0.5SH(50)

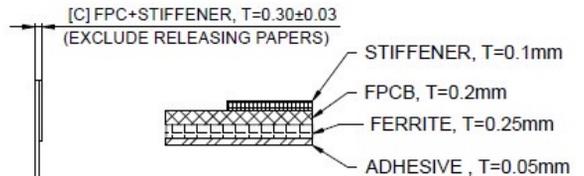


BOTTOM VIEW

Pin	Data
1	NFC +
2	NFC +
3	NFC +
4	NFC +
5	NFC -
6	NFC -
7	NFC -
8	NFC -



DETAIL A
SCALE 4:1



STRUCTURE

Revisions

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

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