

### Datasheet

## NFC Reader

PCB / 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



30 x 34 x 0.6mm

### NFC Antenna



## Electrical Specifications

### Antenna Characteristics (Contains Ferrite)

Frequency (MHz)*	13.56
Impedance ( $\Omega$ )*	20~30
Inductance ( $\mu$ H)**	1.74
Resistance ( $\Omega$ )**	1.03
Self Resonance Frequency (MHz)**	83.67
Q-Factor**	65.2
Ferrite Permeability ( $\mu'$ )	150

\* With matching network.

\*\* Bare coil without any matching network.

**Mechanical Specifications**

**Environmental**

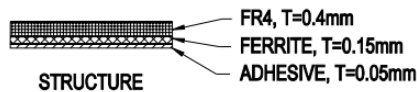
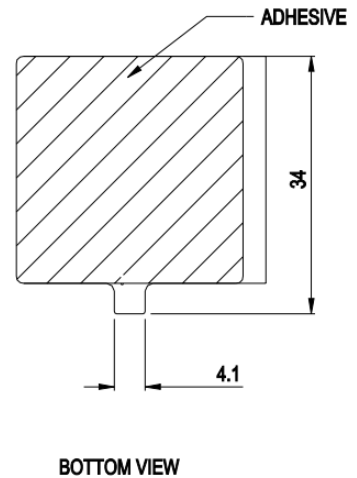
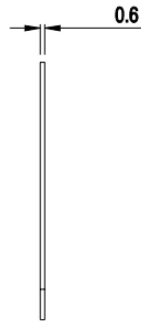
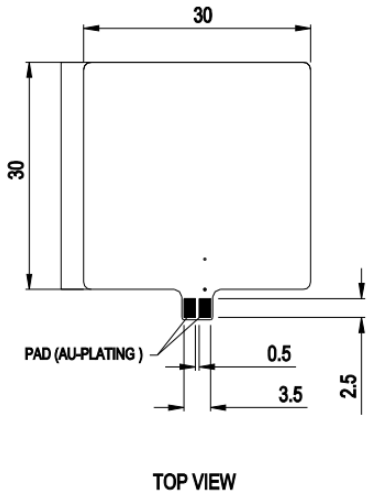
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Dimension (mm)	Weight (g)	Material	Adhesive
ST0815-11-N01-A	30 x 34 x 0.6	1.4	FR-4 + Ferrite	3M 467

**Mechanical Drawing**

Unit : mm



ST0815-11-N01-A

Revisions

Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST0815-11-N01-A-RA00	ATC

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