

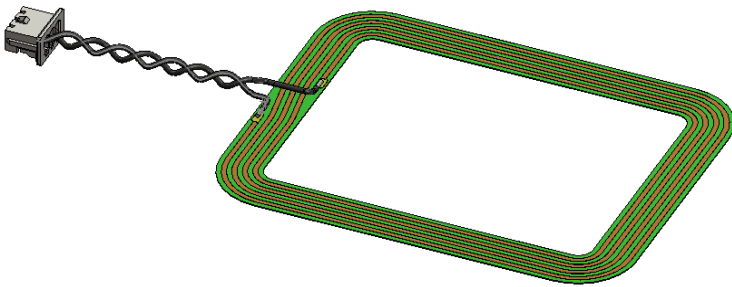
**Description:** NFC Planar Sheet Antenna with wire and connector

**Series:** NFC

**PART NUMBER:** W7000XXXX

**Features:**

- Frequency 13.56 MHz
- Antenna size 43 x 34 mm
- Cable length see page 3
- Connector Molex Picoblade



**Applications:**

- Near Field Communication
- Pairing devices
- Sharing information between devices
- RFID

All dimensions are in mm / inches

Issue: 2023

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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### ELECTRICAL SPECIFICATIONS

Frequency Range*	13.56MHz
Reading distance (mm)*	36 Grid scan (avg)
Self Resonance Frequency**	65.5MHz
Inductance @ 13.56MHz**	1.27 ~1.44 $\mu$ H
Impedance @13.56MHz**	50 Ohm
Resistance @13.56MHz**	2.2 Ohm
Q-factor @13.56MHz**	31~49

Note: Measured in Device mock-up

\*With matching network

\*\*Bare coil without any matching network

### MECHANICAL SPECIFICATIONS

Overall Length	43x34mm
Antenna Material	FPC (total thickness 0.1mm) + Cable
Connector type	Molex Picoblade 51021-0300
Cable type	0.52mm, multithread wire AWG 30

### ENVIRONMENTAL SPECIFICATIONS

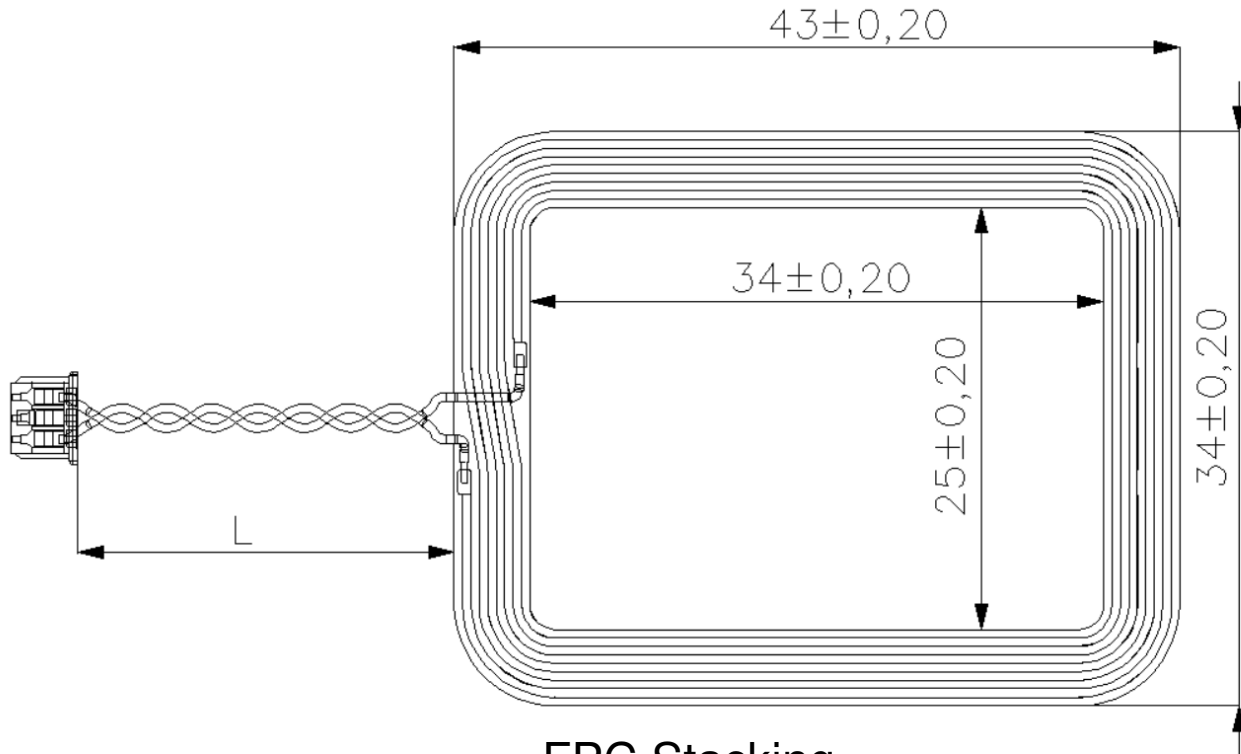
Operating Temperature	-30 ~ +85° C
Storage Temperature	-30 ~ +85° C
RoHS Compliant	Yes

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**MECHANICAL DRAWING**



FPC Stacking

- ===== Solder resist: Lituoda LS8600, or PSR 9000 FLX 501
- ===== Plating: OSP
- ===== Copper: ED copper 18µm
- ===== Substrate: PI, Thickness 25µm
- ===== Adhesive: 3M 467, Thickness 50µm

Part Number	L (mm)
W7000	22.3
W7000T0070	70
W7000T0080	80

Unit: mm

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## PACKAGING

10pcs / PE BAG  
20pcs PE BAG / FOAM BAG  
9pcs FOAM BAG / BOX

## ASSEMBLY

Mounting with adhesive tape 3M467

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