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Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

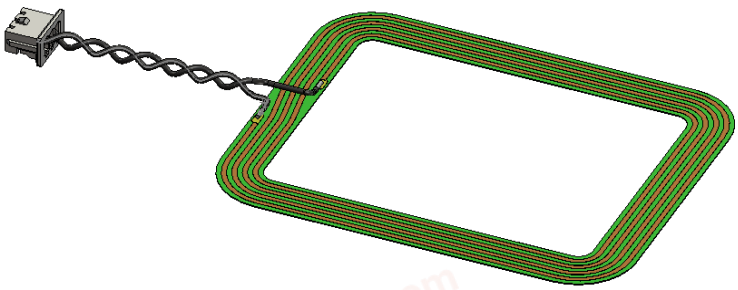
Description: NFC Planar Sheet Antenna with wire and connector

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

RoHS COMPLIANT

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 µH
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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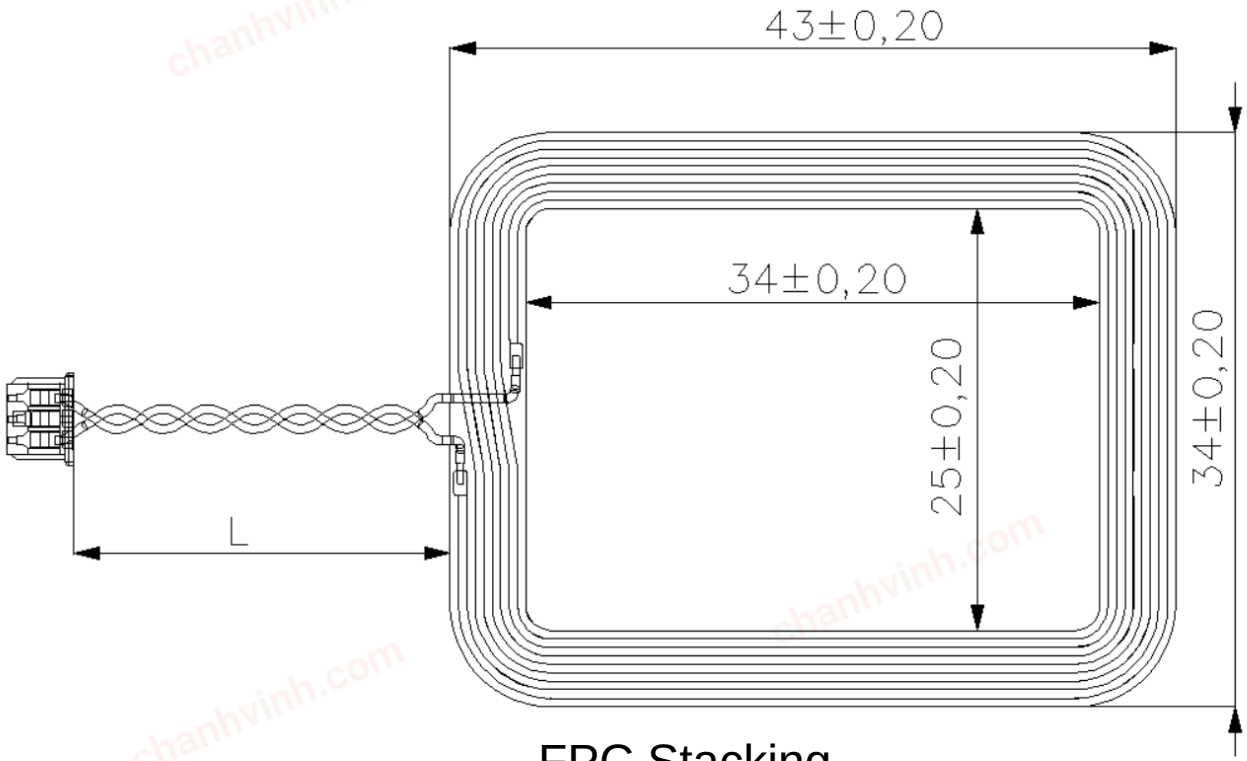
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MECHANICAL DRAWING



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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