

TECHNICAL DATA SHEET

Description:

13.56MHz Flex Antenna with Ferrite

PART NUMBER: W3580



Features:

- Frequency 13.56 MHz
- Size 35 x 50 x 0.48 mm
- Thin semi flexible structure
- Includes Ferrite sheet to enable operation in close proximity to metal
- · Mounting with adhesive tape

Applications:

- Mobile Devices
- Pairing, Sharing
- Payment terminals
- NFC
- RFID

All dimensions are in mm / inches

Issue: 1950

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

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ELECTRICAL SPECIFICATIONS

Antenna Type Coil Antenna

Frequency 13.56MHz

Reading Distance 20mm EMVco

15mm Card (avg.)

Impedance 50ohm /80 ohm

Self Resonance Frequency 46MHz
Inductance 1.30uH
Resistance 3.25ohm

Q -Factor 34
Matched Q Value 5-15

MECHANICAL SPECIFICATIONS

Overall Length 58mm

Weight 1.2g

Antenna Color / Material Yellow FPC + Ferrite

Mounting Method Adhesive Tape

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature $-40\sim +85^{\circ}$ C Storage Temperature $-40\sim +85^{\circ}$ C

RoHS Compliant Yes





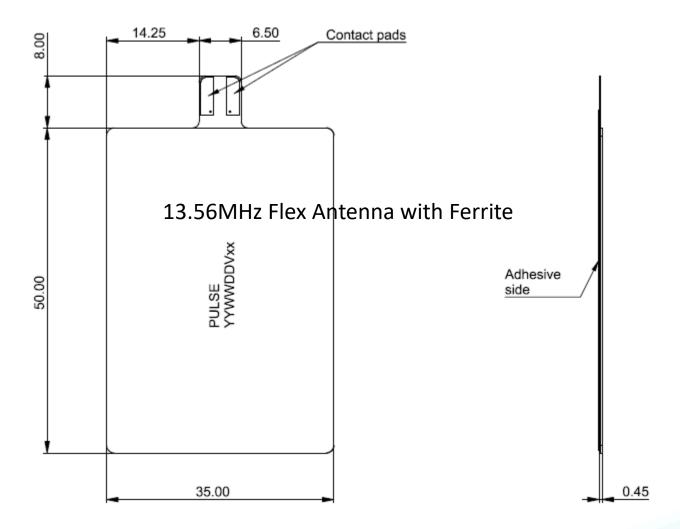
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MECHANICAL DRAWING







TECHNICAL DATA SHEET

Description:

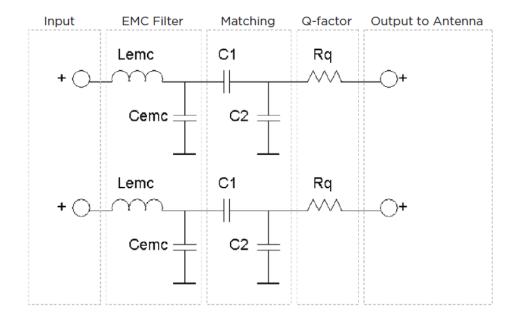
13.56MHz Flex Antenna with Ferrite

PART NUMBER: W3580

Series: NFC Antenna

Recommended matching circuit

| Component | Value | Note |
|-----------|--------|---|
| Lemc | 560 nH | Filter resonance at 15.4 MHz |
| Cemc | 180 pF | Filter resonance at 15.4 MHz |
| C1 | 51 pF | Antenna matching component, value depends on the antenna environment Antenna matching |
| C2 | 198 pF | Antenna matching component, value depends on the antenna environment Antenna matching |
| Rq | 0 Ohm | Rq resistors used to lower Q-value |





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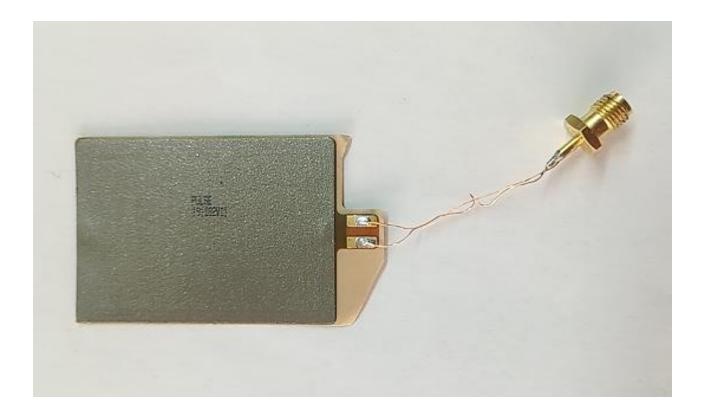
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13.56MHz Flex Antenna with Ferrite

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Series: NFC Antenna

TEST SETUP





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Description:

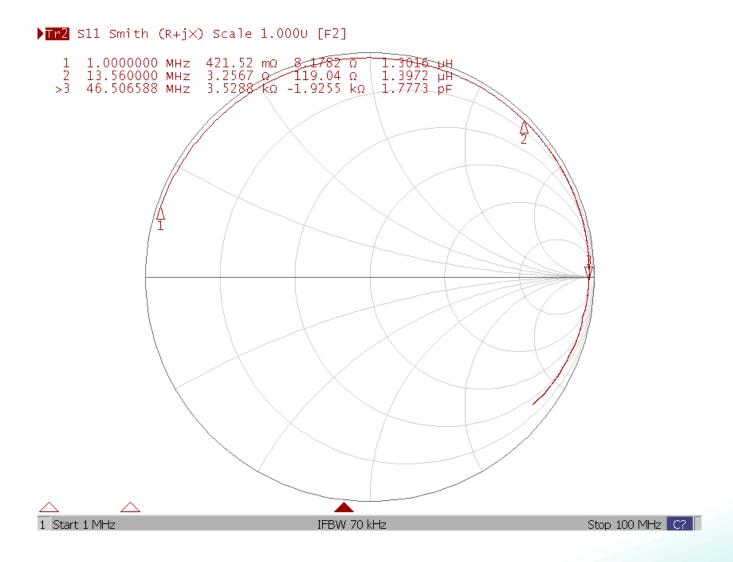
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CHARTS

W3580 Parameters without matching circuit







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PACKAGING

10pcs Antennas packed in 1pcs PE Bag,

100pcs PE Bags of Antennas (total 1000pcs) packed in one Carton.





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