

NFC Antenna

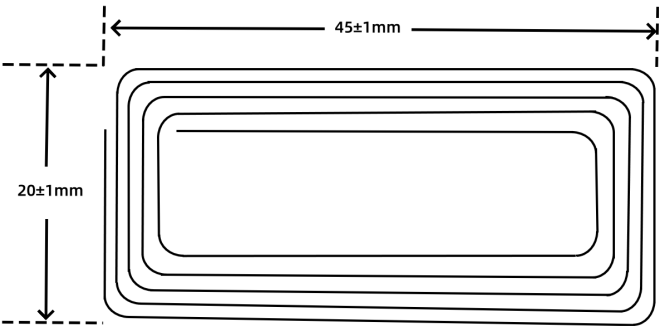
FEATURES



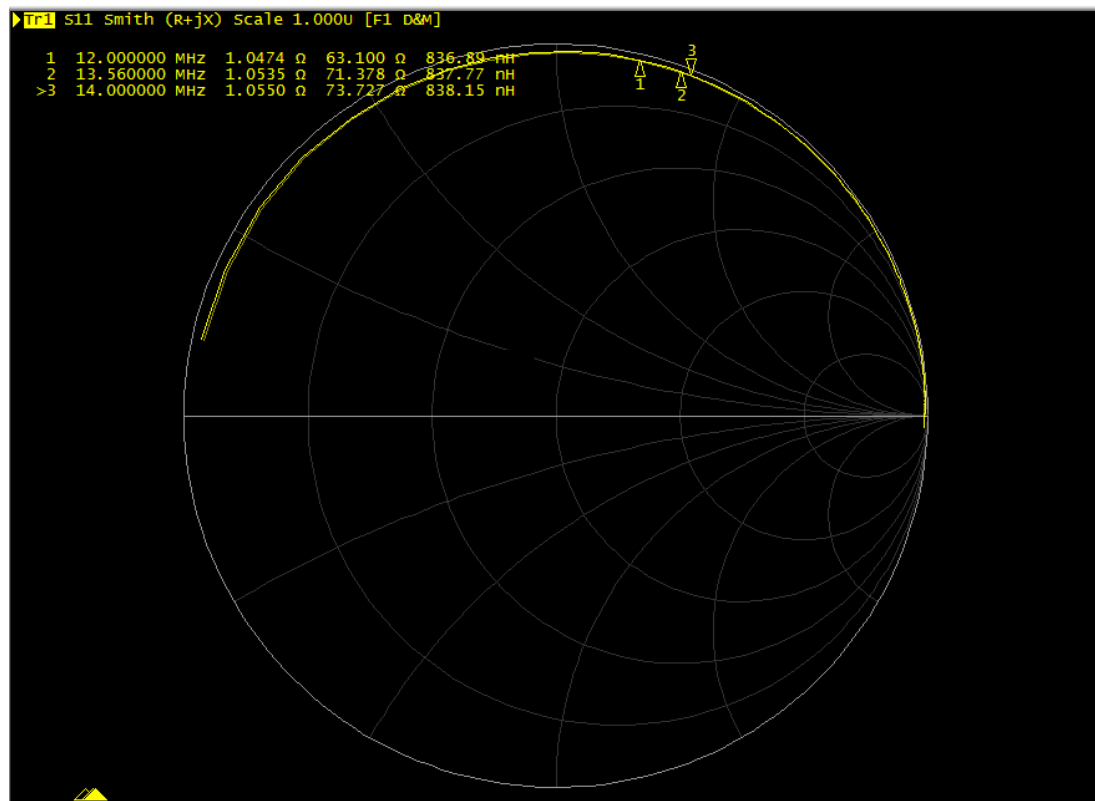
- Operating Frequency: 13.56 MHz
- RF Power: 2W
- RoHS: Yes
- Operating Temperature: -40 to +85°C

SPECIFICATIONS

PARAMETER	SPECIFICATION
Frequency Bands, MHz	13.56
Self Resonance Frequency, MHz	100
Impedance(Ω)	50
Inductance(μ H)	0.837
Resistance(Ω)	1.05
Q-Factor	67.75
Matched Q Value	20-40
Antenna gain(dBi)	0
Storage Temperature Range (°C)	-40°C to +85° C
Operational Temperature Range (°C)	-40°C to +85° C
Material Substance Compliance	REACH/RoHS Compliant



ELECTRICAL DATA



Recommended matching network

Component	Value	Note
Lemc	560 nH	Filterresonance at 15.4 MHz
Cemc	180 pF	Filterresonance at 15.4 MHz
C1	35 pF	Antenna matching component, value depends on the antenna environ-ment Antenna matching
C2 Includes C2a and C2b values	280 pF	Antenna matching component, value depends on the antennaenvironment Antenna matching
Ra	0 Ohm	Ra resistors used to lower Q-value

