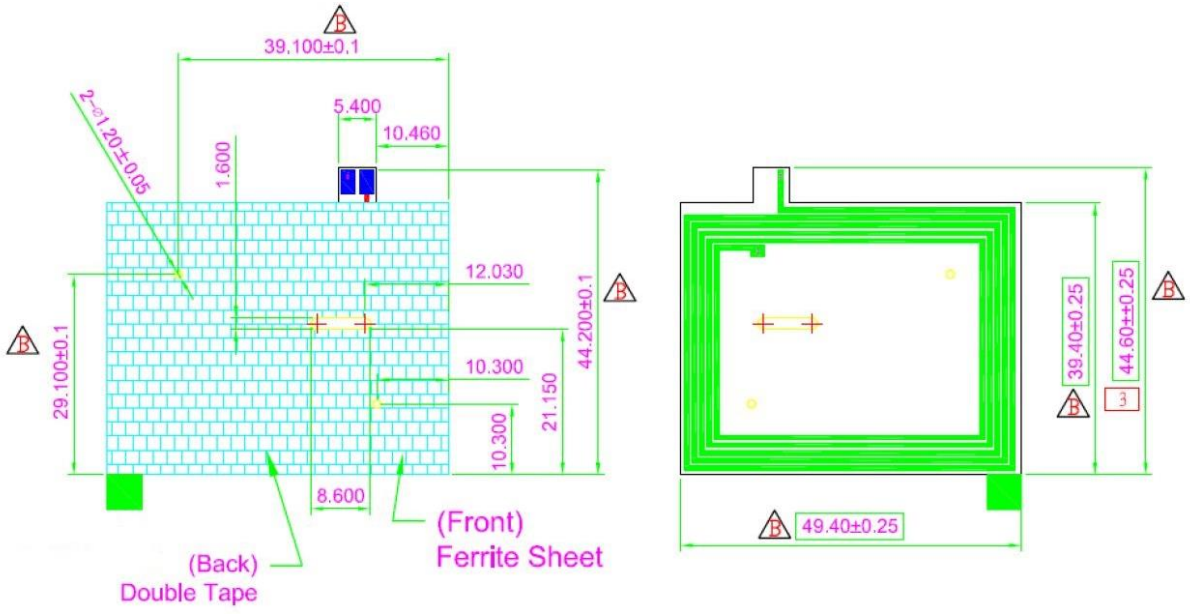
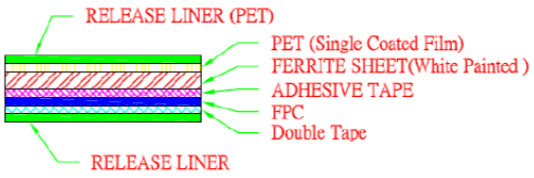
RNF-VA1-4939-W-001

ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Frequency Band		13.560	MHz
La		2.3988±0.1	µH
Rs		1.7325±0.35	Ω
Q		26.81±2.0	-
Cu Thickness. min		35	µm
Test Frequency		1	MHz
FPC		1/2 OZ CU + PI (Double -Sided FPC)	-
Double Tape		3M 9019	-
Ferrite Sheet	Length	49.4	mm
	Weight	39.4	mm

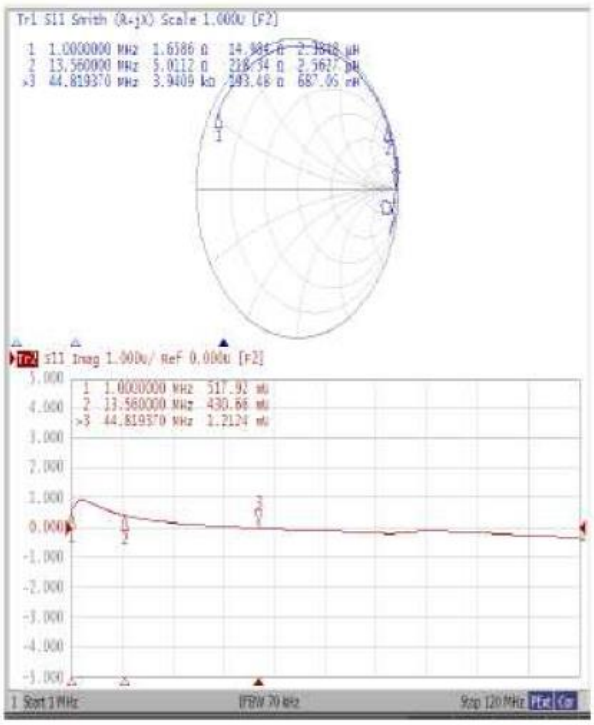
MECHANICAL SPECIFICATIONS





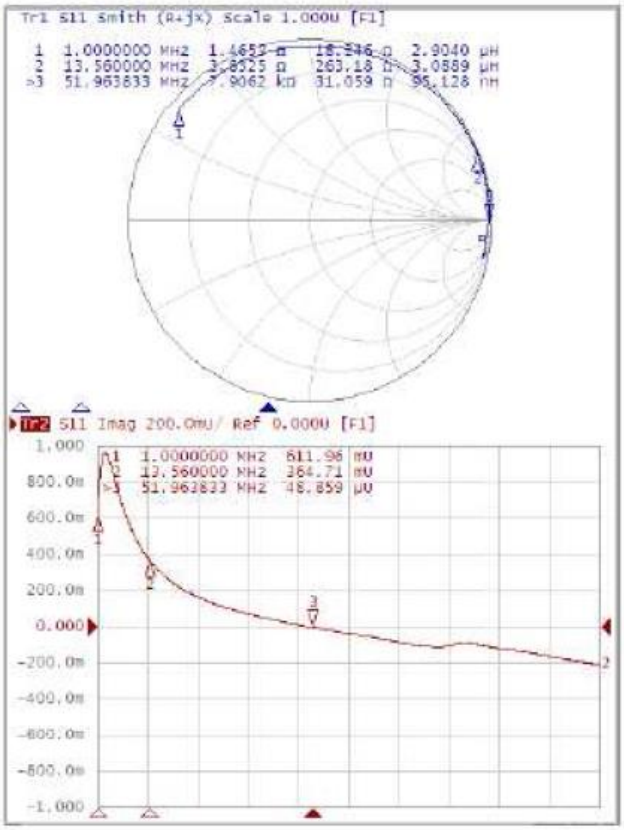
TEST REPORT

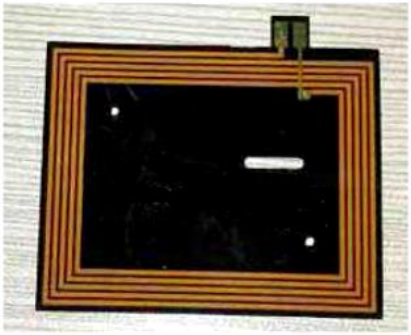
1. NFC ANTENNA PARAMETERS



Specification	Proposal
La =2.3uH(1MHz)	2.3988uH
Rs< 2Ω(1MHz)	1.7325Ω
Fra >35MHz	46.72 MHz
Rp >3KΩ	3.82 KΩ
Qa=25~35	26.81
R+jx (13.56MHz)	4.97+j217.64Ω

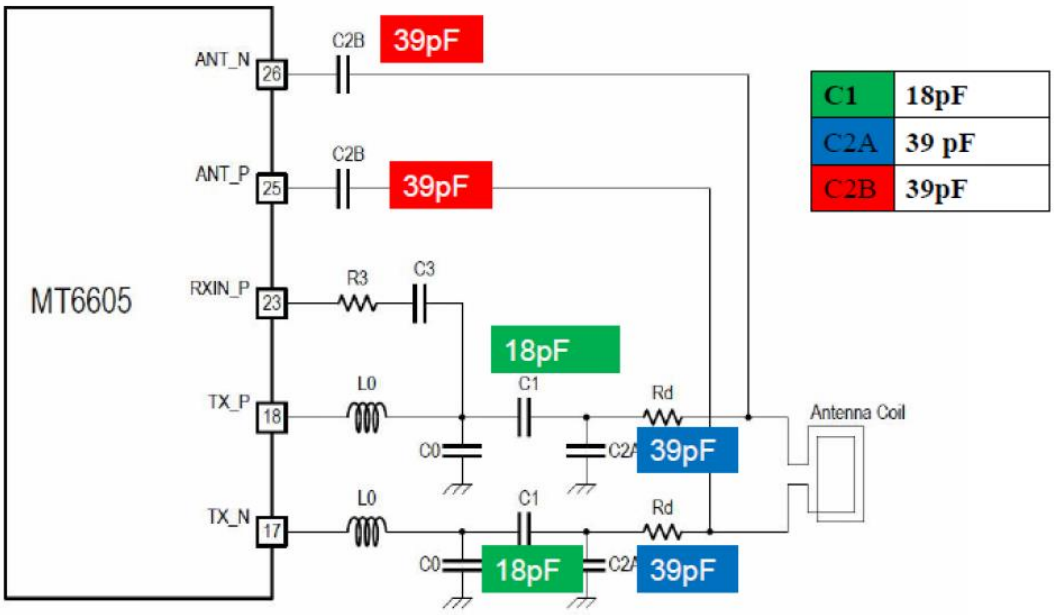
2. SINGLE NFC COIL PARAMETERS





Specification	Proposal
La (1MHz)	2.9040uH
Rs (1MHz)	1.4653Ω
Fra >35MHz	51.96 MHz
Rp >3KΩ	7.9 KΩ
Qa=25~35	45.69
R+jx (13.56MHz)	7.9+j31.059Ω

MATCHING CIRCUIT



READING RANGE

Reader	Card	Before matching Reading range (unit mm)	After matching Reading range (unit mm)
InFocus	Type 1	35	41
InFocus	Type 2	55	60
InFocus	Type 3	43	45
InFocus	Type 4	29	30

APPROVAL

RALTRON	
DRAWN BY:	AR, August 20, 2018
APPROVED BY:	CP, August 20, 2018
REVISION:	A, Initial Release